Revision Problems Using TI-84

1.	x y = ?	Answer the question marks in case of a linear model.
	3 12	Answer the question marks in case of an exponential model. What is
	7 16	the doubling time?
	10 ?	Answer the question marks in case of a power model.
	? 40	
2.	x y = ?	Answer the question marks in case of a quadratic model.
2.	$\frac{x}{3}$ $\frac{y-1}{12}$	Find maxima or minima.
	7 16	Find the equation for the tangent line in $x=2$.
		Find the gradient formula.
		Find the gradient number in $x = 5$
	15 ?	Find the area formula $X = 3$
	? 10	Find the area number from $x = 1$ to $x = 6$
3.	<u> </u>	Find the intersection points with the line $y = 3 + 2x$ Answer the question marks in case of a cubic model.
5.	x y = ?	Find maxima and minima.
	3 12	
	7 16	Find the equation for the tangent line in $x=2$.
	10 14	Find the gradient formula.
	12 18	Find the gradient number in $x = 5$
	15 ?	Find the area formula
	? 30	Find the area number from $x = 1$ to $x = 6$
		Find the intersection points with the line $y = 3 + 2x$
4.	3x + 4y = 15 & $5x - 6y = 12$	Solve the simultaneous equations
5.	Given two points in a	Find the midpoint of the line PQ.
	coordinate system $P(2,4)$ and	Find the equation for the line through P and Q
	Q(6,10)	Find the equation for the normal line to PQ passing through P
		Find the angle between PQ and the x-axis.
		Find the distance between P and Q
		Find the distance from the line PQ to the point $S(8,1)$
		Find the equation for the circle through P and Q and with the midpoint
		of PQ as centre.
		Find the intersection point between the circle and the line $y = 12-2x$
6.	Let X be a normal random	P(X < 89) = ?
	variable with mean $m = 100$	P(X>108) = ?
	and standard deviation $d = 12$	P(93 < X < 109) = ?
7.	X counts the numbers of wins	P(X < 70) = ?
	in 100 repetitions of a game	$P(X \le 60) = ?$
	with 65% winning chance.	$P(X \ge 58) = ?$
		$P(63 \le X \le 72) = ?$
8.	$\sin(3x) = 0.4, \qquad 0 \le x \le 2\pi$	Find the solutions:Remember to adjust the window
	$con(1/2x) = -0.3, \qquad 0 \le x \le 2\pi$	Find the solutions:
	$\tan(2x) = 0.7, 0 \le x \le 2\pi$ A = 40, b = 7, C = 90	Find the solutions:
9.		Find a, B and c.
10.	a = 4, c = 7, C = 90	Find A, B and b.
11.	A = 40, b = 7, C = 68	Find a, B and c.
12.	A = 40, b = 7, c = 6.8	Find a, B and C.
13.	A = 40, b = 7, a = 6.2	Find c, B and C.
14.	a = 4, b = 7, c = 6.8	Find A, B and C.
15.	$T = \frac{d}{e-f} + g$	Transpose the T-formula to a d-, e-, f-, and g-formula
16.	The capital 785 increased with	Find the answer
	2.7% 5 times and became ?	Find the corresponding doubling time.
17.	The capital 785 increased with	Find the answer
	2.7% ? times and became 980	Find the corresponding doubling time.
18.	The capital 785 increased with	Find the answer
	?% 5 times and became 980	Find the corresponding doubling time.
19.	-21	As 16-18, but with \$ instead of %

Equation:	y=ax+b		y=?	y=	x+9	x=?		/=x+9	
<u> </u>	y=x+9, 1	found by Stat,	x=10	y=		y=40	2	x=31, fo	ound by Math,
	Calc, Li	nReg		fou	and by y1(10)	·	5	Solver ()=y 1-40
`est	y1(3) = 12	2 ©	Test	y=1	nd by y1(10) 9 found by CalcValue ☺	Test	y	/1(31) = 4	40 ©
Exponentia	l model								
Equation:	y=a*b^x		y=?	v=0	9.671*1.075^x	x=?	1	$v = 9.67^{\circ}$	1*1.075^x
quution.		* 1.075^x, found	$\frac{y-1}{x=10}$		19.853	$-\frac{x-1}{v=4}$	0	$\frac{y - y + 07}{x - 107}$	40, found by Math,
	-		A-10		nd by y1(10)	y_4			-
est	$v_1(3) = 12$	Calc, ExpReg	Test	10u	9.853 found by CalcValue ©	Test		v1(19.74	0 = y 1 - 40 (c) = 40 (c)
		$g_2/\log b = \log 2/\log 1$		y I		103	I	y1(1)./+	0) +0 🛛
ouomig ti		52 1050 1052 1051	075 7.0						
Power mod				i			i.		
Equation:	y=a*x^b		<u>y=?</u>		264* x^0.340	x=?		y=8.264	4* x^0.340
		* x^0.340	x=10	y=1	3.060	y=4	0	x=104.0)24
	found by	y Stat, Calc,		foun	d by y1(10)			found b	y Math, Solver
	PwrReg							0=y1-40)
est	$y_1(3) = 12$	0	Test	y=18	.060 found by CalcValue 😊	Test		y1(104.02	24) = 40 ☺
Problem 3		atic model							
quation:	$ y=a*x^2$		v = 2	v -	$0.048 x^{2+1} 476 x + 8$	x=?	, I	y = 0.0	18x17+1 176x+8
quali011.			$\frac{y=2}{x=15}$	<u>y –</u>	-0.048x^2+1.476x+8 19.429				48x^2+1.476x+8 0 or 29.580
		8x^2+1.476x+8	x=15			y=1	IU		
		/ Stat, Calc,		101	ind by y1(15)				by Math, Solver
est	QuadReg		Test	- 1	0.420 faund has Carab	Test		0=y 1-1 y1(1.420	
est	$y_1(3) = 12$	©	Test	y=1 Cal	9.429 found by Graph, c, Value ©	Tes		y1(1.420 y1(29.58	
	I			Cui	e, value S		1	y 1(2).50	(0) 10 ©
Aaximum:	v = -0.048	3x^2+1.476x+8	Tange	ent v	=-0.048x^2+1.476x+8	Grad	lient	v=-0.0	048x^2+1.476x+8
Tuxina in.	y= 0.0 m	JA 211.170A10	in x=2			form		5	
	$(\mathbf{x}\mathbf{y}) = ($	15.500,19.140)	$\frac{111 \times 2}{x=2}$		=1.286x + 8.190	10111	luia	w'- ($0.095^*x + 1.476$,
			$\lambda - \Delta$						l by TI89
	Maximu	/ Graph, Calc,			ound by Graph, Draw,			Tound	UY 1107
Test		for $x = 15.5$		1	angent	Test		ly'dy=	-0.048x^2+1.476x
l Ca	$y_1(15.5) =$					103			by TI89 ©
		-							-y
Gradient	v=-0.048	3x^2+1.476x+8	Area	v=	-0.048x^2+1.476x+8	Area	a	v=-0.	048x^2+1.476x+8
umber:			formula:	•		num	ber:	5	
=5	dv/dx =	1 for x=5	x=2		$4x = -0.016 * x^3 +$			6	
		Graph, Calc,	<u> </u>	- 5	$738*x^2 + 8.000*x$			C	
	dy/dx	Gaupii, Cait,			and by TI89			Jydx	x = 62.421, found by
	aj/an			10,				1	
								Grapl	n, Calc, $\int f(x) dx$
`est	1, found by	y Math, nDeriv 😳	Test		$y dx$ / $dx = -0.048x^2 + 1.476x + 8$	B Test		62.421	, found by Math, fnInt 💿
				foi	nd by TI89 ©			Į	
		0.0490.0 1.47	1 C 1 Q1		· 2 (1 2)				
ntersection	points	$y = -0.048x^{2}+1.47$		y = 3	+2x (y1 = y3)				
		(x,y) = (-17.130, -31)							
		(x,y) = (6.130, 15.2)		2	1 1/ 17 100 01 0 0				
ort				/3 an	$\frac{d y1(-17.130) = -31.260}{9}$	etc.			
`est		tested by Graph, Cale, I	mersect		٢				
Problem 3	B. Cubic I	model							
Equation:	y=a*x^3	+b* x^2+c* x+d	y=?		y=0.086x^3-1.952x^2	x=?)	y=0.0	86x^3-1.952x^2
•			-		+13.752x-14				52x-14
	v=0.086	x^3-1.952x^2	x=15		y=42.286	y=3	30	x=13.	
	•	x-14, found by	- 10		found by $y(15)$	<i>.</i>			by Math, Solver
		c, Cubic Reg						0=y1-	•
`est	$y_1(3) = 12$		Test		y=42.286 found by Graph,	Test			$(385) = 30$ \odot
	[```	-			Calc, Value			, - ·	, -
	•							•	
Maximu m	y=0.086x	^3-1.952x^2+13.75	2x-14	Tang	gent y=0.086x^3-		Gra	adient	y=0.086x^3-
Ainimum:	-			in x=	•	x-14		mula	1.952x^2+13.752x-1
	Max: (x,y)	= (5.552, 16.841)		x=2	y = 6.971x - 7.562				$y' = 0.257 * x^2 - 0.257 * 0.257$
		Graph, Calc, Maximun	n	4	found by Graph, I				$3.905^* x + 13.752,$
		= (9.634, 13.925)			Tangent	-iu w,			found by TI89
		Graph, Calc, Minimun	1		rangent				10unu 0y 1107
							Tes	t	Jy'dx=0.086x^3-
est	dy/dx = 0 f								
est	y1(5.552)=	16.841							1.952x^2+13.752x
`est		16.841 or x = 9.643	0						

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Gradient number:	y=0.086x^3- 1.952x^2+13.752x-14	Area formula:	y=0.086x^3- 1.952x^2+13.752x-14	Area number:	y=0.086x^3- 1.952x^2+13.752x-14
x=5	y'(5) = 0.657	x=2	$\int y dx = 0.021 * x^4 -$		6
	found by Graph, Calc, dy/dx		0.651*x^3+6.876*x^2+14*x found by TI89		$\int y dx = 58.496$, found by 1
					Graph, Calc, $\int f(x) dx$
Test	0.657, 1	Test	$d(Jydx)/dx = 0.086x^{3}-1.952x^{2}+$	Test	58.496, 62.421
	found by Math, nDeriv 😳		13.752x-14 found by TI89 ③		found by Math, fnInt 😳

Intersection points with y=3+2x: (x,y) = (2.129,-7.259) and (x,y) = (6.657, 16.315) and (x,y) = (13.991, 30.981) found by Math, Solver 0=y1-y3, tested by Graph, Calc, Intersect.

Problem 4

Solutions: $\binom{x}{y} = \binom{3.632}{1.027}$, found by A*B=C, B=A^-1*C, where A	$= \begin{pmatrix} 3 & 4 \\ 5 & -6 \end{pmatrix}$ and $B = \begin{pmatrix} x \\ y \end{pmatrix}$ and $C = \begin{pmatrix} 15 \\ 12 \end{pmatrix}$
Tested by A*B=C : A*B = $\begin{pmatrix} 3 & 4 \\ 5 & -6 \end{pmatrix} * \begin{pmatrix} 3.632 \\ 1.027 \end{pmatrix} = \begin{pmatrix} 15 \\ 12 \end{pmatrix} = C$ \bigcirc	

Problem 5

Problem 5	5						
Midpoint:	$(x,y) = (\frac{x1+x2}{2}, \frac{y1+y2}{2})$	-)	Gradient PQ:	$a = \frac{y2 - y1}{x2 - x1}$		Line PQ:	$y = y1 + a^*(x - x1)$
x1=2 x2=6	$(x,y) = (\frac{2+6}{2}, \frac{4+10}{2})$		x1=2 x2=6	$a = \frac{10-4}{6-2}$		a =1.5 x1=2	$y = 4 + 1.5^{*}(x - 2)$ y = 1.5 [*] x + 1
y1=4	(x,y) = (4,7)	y	y1=4	a = 3/2		y1=4	
y2=10			y2=10	a = 1.5			
Test	Tested geometrically	0]	Гest	Tested geometrically	0	Test	Tested geometrically ©
Gradient perpend.:	c*a = -1	Normal:	y = y1	$+a^{*}(x-x1)$	Distano PQ	$d = \sqrt{d}$	$(x2-x1)^2 + (y2-y1)^2$
	c = -2/3	a=-2/3	•	$-2/3^{*}(x-2)$	x1=2	d =	$(6-2)^2 + (10-4)^2$
	found by Math,	x1=2	y = -2/3	3*x + 5.333	x2=6	d = 7.2	
	Solver $0 = c*3/2+1$	y1=4			$y_{1=4}$ y_{2-10}		
Test	Tested geometrically ©	Test	Tested g	eometrically 😳	<u>y2=10</u> Test	Tested g	geometrically ©
	$d = \frac{ y1 - a^*x1 - b }{\sqrt{1 + a^2}}$	Circ le equatio	on (x-c	$(x^{-1})^{2} + (y - c^{-2})^{2} = r^{2}$	Inte	ersection	$(x-c1)^2 + (y - c2)^2 = r^2$ and $y = 12-2x$
a=1.5 b=1	$d = \frac{ 1 - 1.5^*8 - 1 }{\sqrt{1 + 1.5^2}}$	$r=\frac{1}{2}*7$ r=3.61	(X -	$(4)^2 + (y - 7)^2 = 3.61^2$		⁄2*7.21 3.61	(x,y) = (1.30,9.40) and $(4.30,3.40)$
$x_{1=8}$	$\sqrt{1+1.5^2}$	$c_{1=3.01}$	(x -	$4)^2 + (y - 7)^2 = 13.03$	 c1:		found by Math, Solver 0
$y_{1=1}^{x_{1}=0}$	d = 6.66	$c_{1=4}$ $c_{2=7}$		-	c2 :	-	$=(x-4)^2 + (12-2x-7)^2 -$
-							
Test	To start as any strike allow of	Tet	Tert	ad as any statically a	Tes		3.61 ² Tested geometrically ③
	Tested geometrically \odot	Test	•	ed geometrically \odot			<u> </u>

Angle: tan(v) = a, a=3/2; v = 56.31 found by Math, Solver 0 = tanv - 3/2, v > 0 and v < 90. Tested geometrically

Problem 6	Problem 7
p(X < 115) = 0.894, found by normalCd f(1EE-99,115,100,12)	p(X<70) = 0.827, found by binomCdf(100,0.65,0,69)
p(X<89) = 0.180, found by normalCdf(1EE-99,89,100,12)	$p(X \le 60) = 0.172$, found by binomCdf(100,0.65,0,60)
p(X>108) = 0.253, found by normalCdf(108,1EE99,100,12)	$p(X \ge 58) = 0.941$, found by binomCdf(100,0.65,58,100)
p(93 <x<109) 0.494,="" =="" by="" found="" normalcdf(93,109,100,12)<="" th=""><th>$p(63 \le X \le 72) = 0.571$, found by binomCdf(100,0.65,64,72)</th></x<109)>	$p(63 \le X \le 72) = 0.571$, found by binomCdf(100,0.65,64,72)

Problem 8

x=?	$\sin(3x) = 0.4$	x=?	$\cos(1/2x) = -0.3$	X=	=?	$\tan(2x) = 0.7$
	x =0.137, or 0.910, or 2.232		x =3.745			x =0.305, or 1.876, or 3.447
	or 3.004 or 4.326 or 5.099		found by Math, Solver			or 5.018
	found by Math, Solver		0=y 1+0.3			found by Math, Solver
	0=y1-0.4					0=y1-0.7
Test	tested by Graph, Calc, Intersect 😳	Test	tested by Graph, Calc, Intersect 😳	Te	est	tested by Graph, Calc, Intersect 😳

Problem 9

a = ?	$\tan A = a/b$	c = ?	$\cos A = b/c$	B = ?	A + B = 90
A =40	a = 5.874	A =40	c = 9.138	A = 40	B = 50
b=7	found by Math, Solver	b=7	found by Math, Solver		found by Math, Solver
	0=a/7-tan40		0=7/c-cos40		0=40+B-90
Test	tan 40 = 5.874/7	Test	$\cos 40 = 7/9.138$	Test	50+40 = 90
	0.839 = 0.839 😳		0.766 = 0.766 ©		90=90 [©]

	em 10							
b = ?	$a^{2} + b^{2} = c^{2}$	A =			<u>B</u> :		A + B =	90
a =4	b = 5.745	a =			A		B = 55.1	-
c=7	found by Math, Solver	c=7	~		34			Math, Solver
Гest	0=4^2+b^2-7^2 4^2+5.745^2=7^2	Tes	$\frac{0=4^{2}+b^{2}-7}{t}$	<u>~2</u>	Te		0=34.85 34.85+55.	
lest	$4^{1}2 + 5.745^{1}2 = 7^{1}2$ 49 = 49 ©	Tes	t $\sin 34.85 = 4/7$ 0.571 = 0.571	٢	Tes		34.85+55. 90=90	15 = 90 ©
			0.571 0.571	۲		I	/0-/0	٢
Proble	1	0			0		7 1/**	D
$\frac{3 = ?}{4 = 40}$	A+B+C=180	a = ?	a/sinA = b/sinB		c = ?		C = b/sin	В
	B = 72	A =40 B =72	a = 4.731		C =68	c =6.8	, Solver	
C =68	found by Math, Solver $0-40+B+68-180$	B =72	found by Math, Sol 0=a/sin40- 7/sin72	vei	B = 72		,	
ſest	0=40+B+68-180 40+72+68=180	$\frac{b=7}{Test}$	$0 = a/s \sin 40 = 7/s \sin 72$ 4.731/sin40 = 7/sin72		b = 7 Test		$\frac{1068 - 7}{1000}$	
	180=180 ©	100	7.360 = 7.360	0	100	7.360 :		0
Proble	m 12							
		B = ?	a/sinA = b/sinB		C = ?		A+B+C=	190
	$a^2 = c^2 + b^2 - 2^* c^* b^* \cos A$							180
	a =4.724	A =40			A =40		c = 67.7	
	found by Math, Solver	b = 7	found by Math, S		B =72		•	Math, Solver
$\mathbf{p}=7$	$0=a^2-6.8^2-7^2+2*6.8*7*\cos 40$							2.3+C-180
est	$4.724^2 = 6.8^2 + 7^2 - 2*6.8*7*\cos 40$	Test	$4.724/\sin 40 = 7/\sin 7$		Test		0+72.3+67	
	22.316=22.316 ©		7.348 = 7.348	٢		1	80=180	©
Proble	um 13					•		
3 = ?	a/sinA = b/sinB	C = ?	A+B+C=180	c -	= ?	g/cin/	A = c/sin	C
	B = 46.53 or B = 133.47	$\frac{c-1}{A=40}$	C = 93.47 or $C = 6$.		= : =40		$\frac{1}{628 \text{ or } C}$	
n = 6.2	found by Math, Solver	A = 40 B = 46.53	found by $C = 93.4701 \text{ C} = 0.$		-40 6.2			
0.2	$0 = 6.2/\sin 40 - 7/\sin B, B>0$	or	Math, Solver		=93.47,	found by Math, Solver $0 = 6.2/\sin 40 - c/\sin C$		
- 1	and B< 180 $H = 0.273 \text{ mH}$	B=133.47			=6.53	0 - 0.	_, 5111 +0 -	, 9m C
Гest	6.2/sin40=7/sin46.53=7/sin133.47	Test	40+46.53+93.47=180	Te				sin93.47=9.628/sin6.
	9.645 = 9.645 = 9.645 ©		180=180 ©			9.645 =	=9.645 = 9	.645 😳
Proble	em 14							
A = ?	$a^2 = c^2 + b^2 - 2^* c^* b^* \cos A$	B = ?	$b^2 = a^2 + c^2 - 2^* a^* c^*$	DOS D	C = ?	A	A+B+C=	180
a = 4	$a^{-} = c^{-} + b^{-} - 2^{*} c^{*} b^{*} \cos A$ A =33.66	a = 4	B = 75.91	CUS D	A =33		C = 70.43	
a = 4 c = 6.8	A = 33.00 found by Math, Solver	a = 4 c = 6.8	B = 75.91 found by Math, Solver		A = 33 B = 75			ath, Solver
b = 7	$0 = 4^2 - 6.8^2 - 7^2 + 2^* 6.8^* 7^* \cos A$	c = 0.8 b = 7	$0 = 7^2 - 4^2 - 6.8^2 + 2 \cdot 6.8 \cdot 4$	*cos B	Б = / З			25.91+C-180
D = 7 Test	$4^2 = 6.8^2 + 7^2 - 2^{*}6.8^{*}7^{*} \cos 33.66$	$\frac{D-7}{Test}$	$7^2 = 4^2 + 6.8^2 - 2^{*} 6.8^{*} 4^{*} co$		Test	3	3.66+75.9	1+70.43=180
	$4^{-}=6.8^{-}+7^{-}-2^{*}6.8^{*}7^{*}\cos 33.66$ 16=16		$7^{-}=4^{-}+6.8^{-}-2^{*}6.8^{*}4^{*}cc$ 49=49	s 75.91 ☺		-	80=180	©
Jucki		I		-		I		
Proble								
		b l		h			1	d
		$T = \frac{d}{e-f} + g$	g f=?	$T = \left(\frac{d}{d}\right)$	\overline{f}) + g		g=?	$T = \frac{d}{e-f} + g$
l=? T	$r = \frac{d}{e-f} + g$ $e=?$	$T = \frac{d}{e - f} + g$		$T = \left(\frac{d}{(e-1)}\right)$				$\frac{T = \frac{d}{e - f} + g}{d}$
l=? T	$r = \frac{d}{e-f} + g$ $e=?$			(T-g)(e-	f) = d			
l=? T	$\frac{d}{d} = \frac{d}{e-f} + g$ $\frac{d}{f} = (\frac{d}{(e-f)}) + g$ $\frac{d}{d} = \frac{d}{d} = \frac{d}{d}$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-\sigma)(e-f) =$	+ g = d	(T-g)(e-	f) = d			$T = \left(\frac{d}{(e-f)}\right) + g$
l=? T	$r = \frac{d}{e-f} + g$ $e=?$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-\sigma)(e-f) =$	+ g = d	$(T-g)(e-d) = \frac{d}{T-g}$	f) = d + f			$T = \left(\frac{d}{(e-f)}\right) + g$
l=? T	$\frac{d}{d} = \frac{d}{e-f} + g$ $\frac{d}{f} = (\frac{d}{(e-f)}) + g$ $\frac{d}{d} = \frac{d}{d} = \frac{d}{d}$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-\sigma)(e-f) =$	+ g = d	$(T-g)(e-d) = \frac{d}{T-g}$	f) = d + f			
l=? T T d	$\frac{d}{d} + g = \frac{d}{e-f} + g$ $\frac{d}{e-f} + g$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$	+ g = d f	$(T-g)(e-d) = \frac{d}{T-g}$	f) = d + f			$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$
l=? T T d	$\frac{d}{d} + g = \frac{d}{e-f} + g$ $\frac{d}{e-f} + g$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$	+ g = d f	$(T-g)(e-d) = \frac{d}{T-g}$	f) = d + f	=T		$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$
l=? T T d	$\frac{d}{d} = \frac{d}{e-f} + g$ $\frac{d}{f} = (\frac{d}{(e-f)}) + g$ $\frac{d}{d} = \frac{d}{d} = \frac{d}{d}$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$	+ g = d f	$(T-g)(e-d) = \frac{d}{T-g}$	f) = d + f	 =T		$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$
I=? T T d Test T	$\frac{d}{d} = \frac{d}{e - f} + g$ $\frac{d}{f} = \frac{d}{(e - f) + g}$ $= (e - f)^{*}(T - g)$ $\frac{d}{f} = \frac{(e - f)^{*}(T - g)}{e - f} + g = T$ Test	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$	+ g = d f	$(T-g)(e-d) = \frac{d}{T-g}$	f) = d	 =T		$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$
T T T T T T T T T T T T T T T T T T T	$\frac{d}{d} = \frac{d}{e-f} + g$ $\frac{d}{f} = (\frac{d}{(e-f)}) + g$ $= (e-f)^*(T-g)$ $\frac{d}{f} = \frac{(e-f)^*(T-g)}{e-f} + g = T$ Test $\frac{d}{f} = T$ Test $\frac{d}{f} = \frac{f}{f} + g = T$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g}} + f$	f = d $f = d$ $f = T$ $f = f$ $f = T$ $Test$	$(T-g)(e-d) = \frac{d}{T-g}$	$f) = d$ $+ f$ $= f$ $\frac{d}{-\frac{d}{T-g}} + g$		Test	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$
$\frac{1=?}{T}$ $\frac{T}{d}$ $\frac{T}{rest}$ T $\frac{T}{roble}$	$\frac{d}{d} + g = \frac{d}{e-f} + g$ $\frac{d}{f} = (\frac{d}{(e-f)}) + g$ $= (e-f)^{*}(T-g)$ $\frac{d}{f} = \frac{(e-f)^{*}(T-g)}{e-f} + g = T$ Test $\frac{e=1}{e=1}$ Test $\frac{e=1}{e=1}$ Test $\frac{e=1}{e=1}$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g} + f}$ $x = ?$	$ + g = d $ $ f = -f + g = T $ $ f - f + g = T $ $ Test $ $ y = a * b^{x} $	$(T-g)(e-d) = \frac{d}{T-g}$	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $b = b$?у	Test $y = a^*b^2$	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$
$\frac{1=?}{T}$ $\frac{T}{d}$ $\frac{T}{d}$ $\frac{T}{T}$ $\frac{T}{T}$ $\frac{T}{T}$ $\frac{T}{T}$ $\frac{T}{T}$ $\frac{T}{T}$ $\frac{T}{T}$	$r = \frac{d}{e-f} + g \qquad e=?$ $r = (\frac{d}{(e-f)}) + g$ $= (e-f)^*(T-g)$ $r = \frac{(e-f)^*(T-g)}{e-f} + g = T \qquad Test$ $r = signal = 18$ $r = signal = 18$ $r = signal = 10$ $r = signal = 10$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g} + f}$ $\frac{x = ?}{a=785}$	$ + g = d $ $ f = - f = T $ $ f - f = T $ $ y = a + b^{x} $ $ x = 8.3 $	$(T-g)(e-\frac{d}{T-g})$ $e - \frac{d}{T-g}$ $T = -\frac{d}{e-e}$	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $- \frac{b}{a=7}$	<u>?</u> 785 t	${Test}$ $\frac{7}{2} = \frac{a*b^{2}}{a}$	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ $\frac{x}{f = 1 + 4.5\%}$
$\frac{1=?}{T}$ $\frac{T}{d}$ $\frac{T}{rest}$ $\frac{T}{T}$	$r = \frac{d}{e-f} + g \qquad e=?$ $r = (\frac{d}{(e-f)}) + g$ $= (e-f)^*(T-g)$ $r = \frac{(e-f)^*(T-g)}{e-f} + g = T \qquad Test$ $r = signal = 18$ $r = signal = 18$ $r = signal = 10$ $r = signal = 10$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g} + f}$ $\frac{x = ?}{a=785}$ $b=1.027$	$+ g$ $= d$ f $f = T$ $f - f$ $y = a^*b^x$ $x = 8.3$ found by Math, Sol	$(T-g)(e-\frac{d}{T-g})$ $e - \frac{d}{T-g}$ $T = -\frac{d}{e-e}$ ver	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $- \frac{b}{a=7}$ $y = 5$? y 785 t 980 f	Test $y = a*b^{A}$ p = 1.045 found by	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ $\frac{x}{6} = 1 + 4.5\%$ Math, Solver
$\frac{1=?}{T}$ $\frac{T}{d}$ $\frac{T}{rest}$ $\frac{T}{T}$	$r = \frac{d}{e-f} + g \qquad e=?$ $r = (\frac{d}{(e-f)}) + g$ $= (e-f)^*(T-g)$ $r = \frac{(e-f)^*(T-g)}{e-f} + g = T \qquad Test$ $r = signal = 18$ $r = signal = 18$ $r = signal = 10$ $r = signal = 10$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g} + f}$ $\frac{x = ?}{a=785}$ $b=1.027$ $y=980$	$+ g$ $= d$ f $f = T$ $f - f$ $y = a^*b^x$ $x = 8.3$ found by Math, Sol $0 = 785^* 1.027^x - 9$	$(T-g)(e-\frac{d}{T-g})$ $e - \frac{d}{T-g}$ $T = -\frac{d}{e-e}$ ver	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $\frac{b}{a=7}$ $y=9$ $x=4$	<u>? 3</u> 785 t 980 f 5 ($Test$ $y = a*b^{A}$ $y = 1.045$ Found by $y = 785*b^{A}$	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ K $S = 1 + 4.5\%$ Math, Solver ^5 - 980
$\begin{array}{c c} 1 = ? & T \\ \hline T \\ d \\ \hline \\ \hline \\ \hline \\ rest & T \\ \hline \\ \hline \\ \hline \\ rest & T \\ \hline \\ \hline \\ \hline \\ rest & T \\ \hline \\ \hline \\ \hline \\ rest & T \\ rest & T \\ \hline \\ rest & T \\ re$	$r = \frac{d}{e-f} + g \qquad e=?$ $r = (\frac{d}{(e-f)}) + g$ $= (e-f)^*(T-g)$ $r = \frac{(e-f)^*(T-g)}{e-f} + g = T \qquad Test$ $r = signal = 18$ $r = signal = 18$ $r = signal = 10$ $r = signal = 10$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g} + f}$ $\frac{x = ?}{a=785}$ $b=1.027$	+ g = d f f - f + g = T Test y = a*b^x x = 8.3 found by Math, Sol 0=785*1.027^x - 9 980 = 785*1.027^8.3	(T-g)(e-e)(e-e)(T-g)(e-e)(F-g)(F-g)(e-e)(F-g)(e-e)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $- \frac{b}{a=7}$ $y = 5$? y 785 t 980 f 5 ($Test = a*b^{A}$ $Test = 1.045$ Found by = 785*b^{A} $Test = 1.045$ The set = 1.045 = 1.045 The set = 1.045 = 1.045 = 1.045 The set = 1.045 = 1.04	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ K $S = 1 + 4.5\%$ Math, Solver $\frac{h}{5} - 980$ 1.045%
$\frac{1}{1} = ? T$ T d T d T	$\frac{d}{d} = \frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g = T \qquad Test$ $\frac{e}{e-f} = \frac{(e-f)^*(T-g)}{e-f} + g = T \qquad Test$ $\frac{e}{e} = \frac{16-18}{y = a^*b^*x} + g = 7 \qquad Test$ $\frac{1}{y = 785^*1.027^*5} + g = 7 \qquad Test$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g} + f}$ $\frac{x = ?}{a=785}$ $b=1.027$ $y=980$ Test		$(T-g)(e-\frac{d}{T-g})$ $e - \frac{d}{T-g}$ $T = -\frac{d}{e-e}$ ver	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $- \frac{b}{a=7}$ $y=9$ $x=4$ Test	? 5 785 t 980 f 5 ($Test$ $T = a*b^{2}$ $T = 1.045$ To = 1.045 To und by 0 = 785*b^{2} $T = 785*b^{2}$ $T = 785*b^{2}$	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ K $K = 1 + 4.5\%$ Math, Solver $\frac{h}{5} - 980$ 1.045^{h}
$\begin{array}{c c} 1 = ? & T \\ \hline T & T \\ d \\ \hline \\ \hline \\ rest & T \\ \hline \\ \hline \\ rest & T \\ \hline \\ rest & T \\ \hline \\ rest & T \\ = ? \\ rest & T \\ \hline \\ rest & T \\ rest & T \\ \hline \\ rest & T \\ rest & T \\ \hline \\ rest & T \\ rest & T \\ \hline \\ rest & T \\ rest & $	$\frac{d}{d} = \frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g = T \qquad Test$ $\frac{e}{e-f} = \frac{(e-f)^*(T-g)}{e-f} + g = T \qquad Test$ $\frac{e}{e} = \frac{(e-f)^*(T-g)}{e-f} + g = T \qquad Test$ $\frac{e}{e} = \frac{1}{2} + 1$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g} + f}$ $\frac{x = ?}{a=785}$ $b=1.027$ $y=980$ Test	+ g = d f f - f + g = T Test y = a*b^x x = 8.3 found by Math, Sol 0=785*1.027^x - 9 980 = 785*1.027^8.3	(T-g)(e-e)(e-e)(T-g)(e-e)(F-g)(F-g)(e-e)(F-g)(e-e)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $- \frac{b}{a=7}$ $y=9$ $x=4$ Test	? 5 785 t 980 f 5 ($Test = a*b^{A}$ $Test = 1.045$ Found by = 785*b^{A} $Test = 1.045$ The set = 1.045 = 1.045 The set = 1.045 = 1.045 = 1.045 The set = 1.045 = 1.04	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ K $K = 1 + 4.5\%$ Math, Solver $\frac{h}{5} - 980$ 1.045^{h}
$\frac{1=?}{T}$ $\frac{T}{d}$ $$	$\frac{d}{d} = \frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g = r \qquad res$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + 1$ $T = \frac{d}{\frac{d}{T-g} + 1}$ $\frac{x = ?}{a=785}$ $b=1.027$ $y=980$ $T = \ln(2)$	$\begin{array}{c} + g \\ = d \\ f \\ \hline \\ \hline \\ f - f \\ \end{array} + g = T \\ \hline \\ Test \\ \hline \\ y = a^*b^{\Lambda}x \\ x = 8.3 \\ found by Math, Sol \\ 0 = 785^* 1.027^{\Lambda}x - 9 \\ 980 = 785^* 1.027^{\Lambda}x - 9 \\ 980 = 980 \\ 2)/\ln(1.027) = 26.0 \end{array}$	(T-g)(e-e)(e-e)(T-g)(e-e)(F-g)(F-g)(e-e)(F-g)(e-e)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $- \frac{b}{a=7}$ $y=9$ $x=4$ $T =$ $T =$	$\frac{?}{285} + \frac{5}{280} + \frac{5}{25} = \ln(2)/2$	Test $7 = a^*b^{-1}$ 7 = 1.045 found by 785^*b^{-1} 785	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ K $K = 1 + 4.5\%$ Math, Solver $\frac{h}{5} - 980$ 1.045^{h}
$\frac{1=?}{T}$ $\frac{T}{d}$ $$	$\frac{d}{d} = \frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g = T \qquad Tes$ $\frac{e}{e-f} + g = T \qquad Tes$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g} + f}$ $\frac{x = ?}{a=785}$ $b=1.027$ $y=980$ $T = ln(2)$ $x = ?$ $y = f$	$\begin{array}{c} + g \\ = d \\ f \\ \hline \\ \hline \\ f - f \\ \end{array} + g = T \\ \hline \\ Test \\ \hline \\ y = a^*b^{\Lambda}x \\ x = 8.3 \\ found by Math, Sol \\ 0 = 785^* 1.027^{\Lambda}x - 9 \\ 980 = 785^* 1.027^{\Lambda}s.3 \\ 980 = 980 \\ 2)/\ln(1.027) = 26.0 \\ \hline \\ = a^*x + b \end{array}$	(T-g)(e-e)(e-e)(T-g)(e-e)(F-g)(F-g)(e-e)(F-g)(e-e)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $- \frac{b}{a=7}$ $y=9$ $x=4$ $T = a = ?$	$\begin{array}{c} ? & y \\ 785 & t \\ 980 & f \\ 5 & 0 \\ \hline & 5 \\ \hline &$	$Test$ $T = a*b^{2}$ $T = 1.045$ To = 1.045 To und by $D = 785*b^{2}$ $D = 785*b^{2}$ $D = 785*b^{2}$ $D = 785*b^{2}$ $D = 980$ $D = 1.045$ $D = 1.045$ $D = 1.045$	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ K $K = 1 + 4.5\%$ Math, Solver $\frac{h}{1.045} - 980$ \odot
f = ? T T d T T d T	$\frac{d}{d} = \frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g = r \qquad res$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g} + f}$ $\frac{x = ?}{a=785}$ $b=1.027$ $y=980$ $T = ln(2)$ $x = ? \qquad y =$ $b=785 \qquad x =$	$\begin{array}{c} + g \\ = d \\ f \\ \hline \\ \hline \\ f - f \\ \end{array} + g = T \\ \hline \\ Test \\ \hline \\ y = a^*b^{\Lambda}x \\ x = 8.3 \\ found by Math, Sol \\ 0 = 785^* 1.027^{\Lambda}x - 9 \\ 980 = 785^* 1.027^{\Lambda}x.3 \\ 980 = 980 \\ 2)/\ln(1.027) = 26.0 \\ \hline \\ = a^*x + b \\ = 72.2 \end{array}$	(T-g)(e-e)(e-e)(T-g)(e-e)(F-g)(F-g)(e-e)(F-g)(e-e)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $- \frac{b}{a=7}$ $y=5$ $x=4$ $T =$ $\frac{a=?}{b=785}$	$\frac{?}{785} = \ln(2)/\frac{y}{a} = 3$	Test $7 = a*b^{2}$ 7 = 1.045 Found by $785*b^{2}$	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ K $K = 1 + 4.5\%$ Math, Solver $\frac{h^{5} - 980}{1.045^{h^{5}}}$ $F = 15.7$
f = ? T T d T T d T	$\frac{d}{d} = \frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g \qquad e=?$ $\frac{d}{e-f} + g = r \qquad res$ $\frac{d}{e-f} + g = r \qquad res$ $\frac{e=?}{e-f} + g = r \qquad res$	$T = \left(\frac{d}{(e-f)}\right)$ $(T-g)(e-f) =$ $e = \frac{d}{T-g} + f$ $T = \frac{d}{\frac{d}{T-g}} + f$ $\frac{x = ?}{a=785}$ $b=1.027$ $\frac{y=980}{Test}$ $T = \ln(2)$ $\frac{x = ?}{b=785} = x =$ $a = 2.7 \text{for}$	$\begin{array}{c} + g \\ = d \\ f \\ \hline \\ \hline \\ f - f \\ \end{array} + g = T \\ \hline \\ Test \\ \hline \\ y = a^*b^{\Lambda}x \\ x = 8.3 \\ found by Math, Sol \\ 0 = 785^* 1.027^{\Lambda}x - 9 \\ 980 = 785^* 1.027^{\Lambda}s.3 \\ 980 = 980 \\ 2)/\ln(1.027) = 26.0 \\ \hline \\ = a^*x + b \end{array}$	(T-g)(e-e)(e-e)(T-g)(e-e)(F-g)(F-g)(e-e)(F-g)(e-e)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g)(F-g	$f) = d$ $+ f$ $= f$ $\frac{d}{T-g} + g$ $- \frac{b}{a=7}$ $y=9$ $x=4$ $T = a = ?$	$\frac{?}{85} = \ln(2)/$ $\frac{y = a}{6}$	Test $7 = a*b^{2}$ 7 = 1.045 Found by $785*b^{2}$	$T = \left(\frac{d}{(e-f)}\right) + g$ $T - \left(\frac{d}{(e-f)}\right) = g$ $T = \frac{d}{e-f} + T - \left(\frac{d}{(e-f)}\right)$ K $K = 1 + 4.5\%$ Math, Solver $K = 1 + 4.5\%$ Math, Solver $K = 1 + 4.5\%$ $M = $

$y = a^*x + b$	x = ?	$y = a^*x + b$	a = ?
y = 2.7*5 + 785	b=785	x = 72.2	b=785
y = 798.5	a=2.7	found by Math, Solver	y=980
	y=980	0 = 2.7* x+785 - 980	x=5
	Test	980 = 2.7*72.2 + 785 = 980 ©	Test

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