p4 to p6

#7 $(-2,4)(5,1)$

$$m = \frac{1-4}{5--2} = \frac{-3}{7} = -3/7$$

$$y - y_1 = m(x - x_1)$$

$$y - 4 = -3/7(x - -2)$$

$$y = -\frac{3}{7}x + \frac{-6}{7} + \frac{4}{1}$$

$$y = -\frac{3}{7}x + \frac{-6}{7} + \frac{28}{7}$$

$$y = -\frac{3}{7}x + \frac{22}{7}$$

#8) $4x^2 = -10x - 5$

$$4x^2 + 10x + 5 = 0$$

$$x^2 + \frac{10}{4}x + \frac{5}{4} = 0$$

$$x^2 + \frac{5}{2}x + \frac{25}{16} = -\frac{5}{4} + \frac{25}{16}$$

$$\left(\frac{\frac{5}{2}}{2}\right)^2 = \frac{25}{16}$$

$$\left(x + \frac{5}{4}\right)^2 = \frac{5}{16}$$

$$x + \frac{5}{4} = \pm\sqrt{\frac{5}{16}}$$

$$x = -\frac{5}{4} \pm \frac{\sqrt{5}}{4}$$

#9 $x^2 - x - 3 = 0$

$b^2 - 4ac$

$1 - 4(1)(-3)$

$$\frac{-1 \pm \sqrt{13}}{2} = \frac{1 \pm \sqrt{13}}{2}$$

$$x^2 - x + \tfrac{1}{4} = 3 + \tfrac{1}{4}$$

$$\left(x - \tfrac{1}{2}\right)^2 = \frac{13}{4}$$

$$x - \tfrac{1}{2} = \pm\sqrt{\frac{13}{4}}$$

$$x = \frac{1}{2} \pm \frac{\sqrt{13}}{2}$$

ground

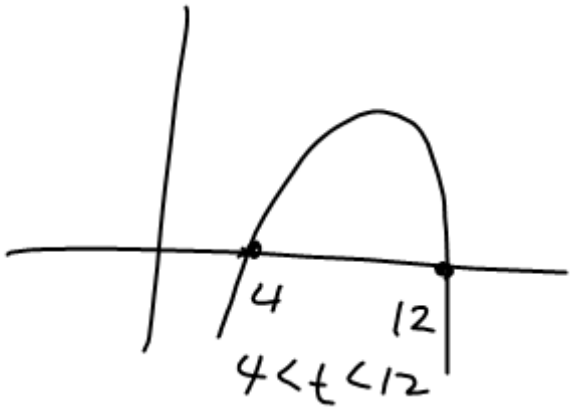
$V_0 = 256$ ft/sec

a) $S > 768$

$768 < -16t^2 + 256t$

$0 < -16t^2 + 25t - 768$

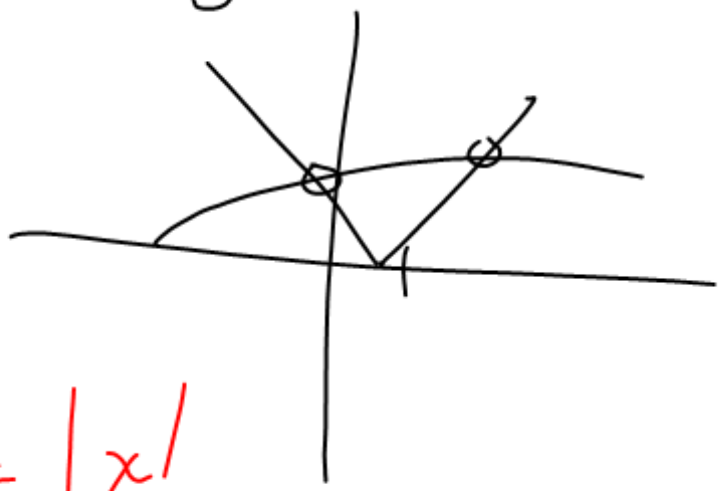
$S = -16t^2 + 256t$



$4 < t < 12$

40. $|3x - 2| = 2\sqrt{x + 8}$

y_1 y_2



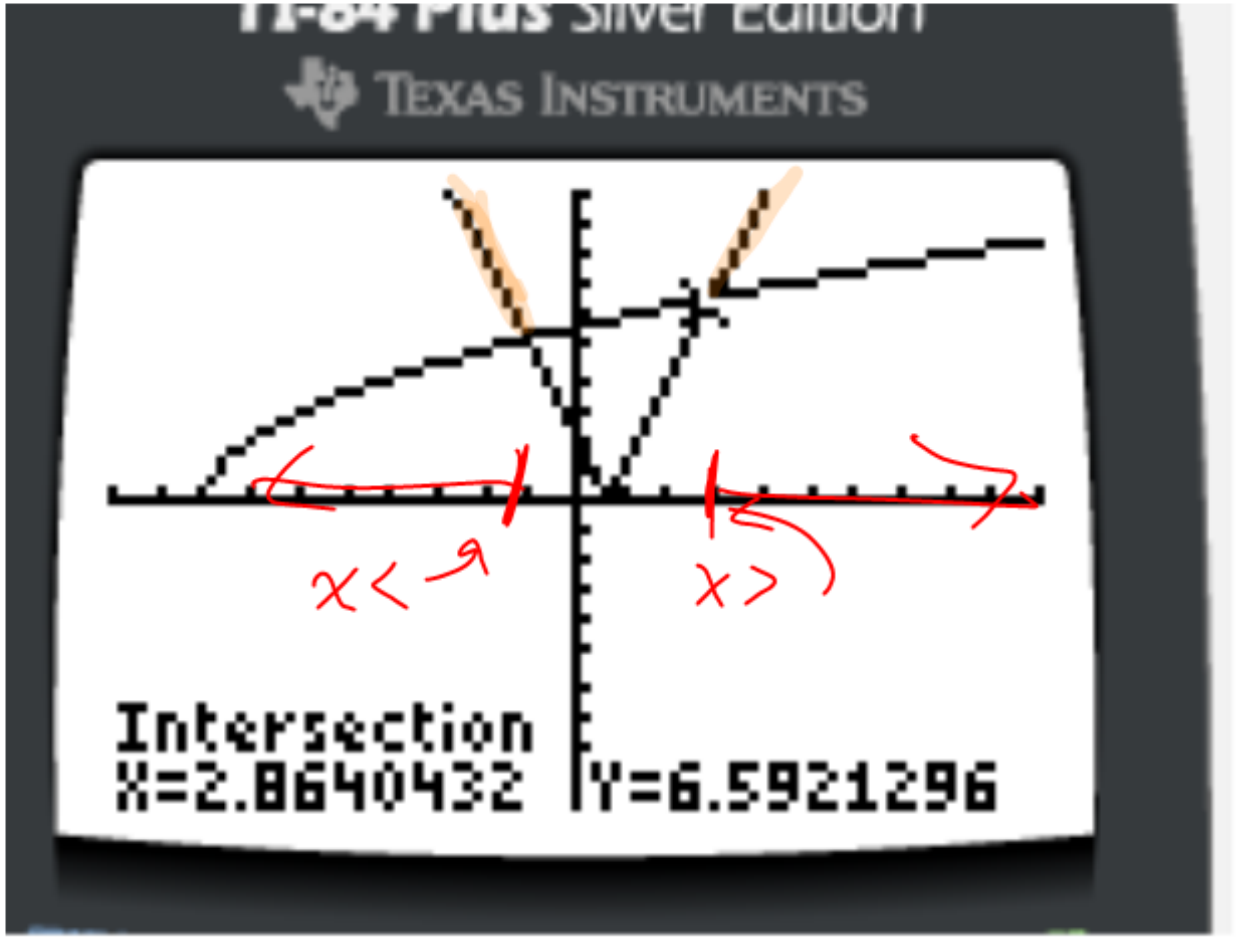
$y = |x|$

PT #30

$4 \leq 2x^3 + 8x$

$0 \leq 2x^3 + 8x - 4$

y_1


TI-84 Plus Silver Edition
TEXAS INSTRUMENTS
x<
x>
Intersection
X=2.8640432
Y=6.5921296

TI-SmartView

File Edit View Tools Scripts Help

TI-84 Plus Silver Edition
Texas Instruments

Intersection
X=-1.086265 Y=5.2587963

L1	L2	L3 1
1998	7.4	------
1999	7.8	
2000	8.4	
2001	8.7	
2002	8.9	
2003	9.2	
------	------	

L1(1)=1998

List

WINDOW
Xmin=-10
Xmax=10
Xscl=1
Ymin=-10
Ymax=10
Yscl=1
Xres=1

Window

Graph

Key Press History | Large Screen

Y= CLEAR MATH) ENTER 3
X,T,Θ,n − 2)) 2
2nd x^2 X,T,Θ,n − (+
8) ZOOM 6 2nd TRACE
5 ENTER ENTER (((
((ENTER

$-1.086 = x$

$2.864 = x$

Clear Key Press History