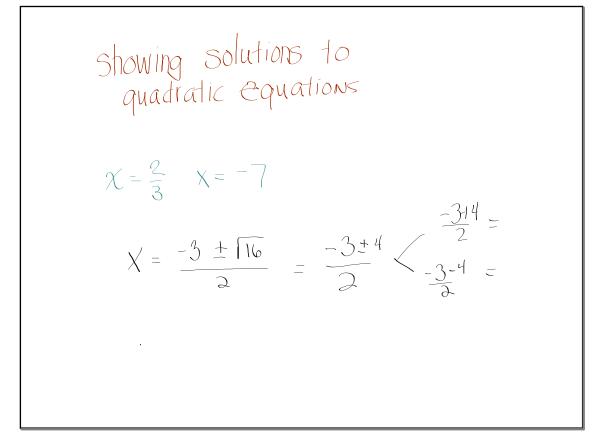
Pick Up the small rectangular paper on Quadratic Functions and either tape (or quickly copy) into your notes. HW Help

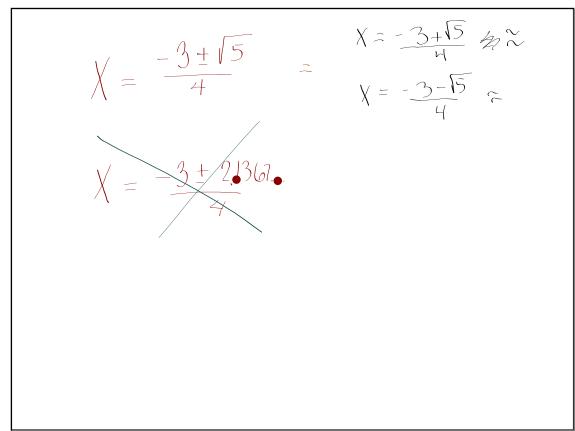
QUADRAIK FUNCTIONS  
FunctionType EQUATION How TO Solve  

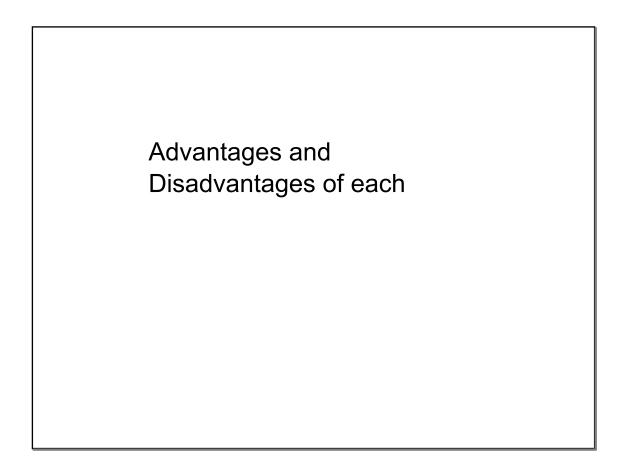
$$f(x) = ax^2 + bx + c$$
 Form  $ax^2 + bx + c = 0$  (Quad. for m.\*  
 $f(x) = a(x-d)(x-e)$  Factoret  $a(x-d)(x-e) = 0$   $\longrightarrow$  2.P.P.  
 $f(x) = a(x-d)(x-e)$  Factoret  $a(x-d)(x-e) = 0$   $\longrightarrow$  2.P.P.  
 $f(x) = (x-h)^3 + k$  Graphing  $(x-h)^2 + k = 0$  (extracting form  $(x-2)^2 + 7 = 0$ )  
 $f(x) = (x-h)^3 + k$  Graphing  $(x-h)^2 + k = 0$  (x-2) (x-2

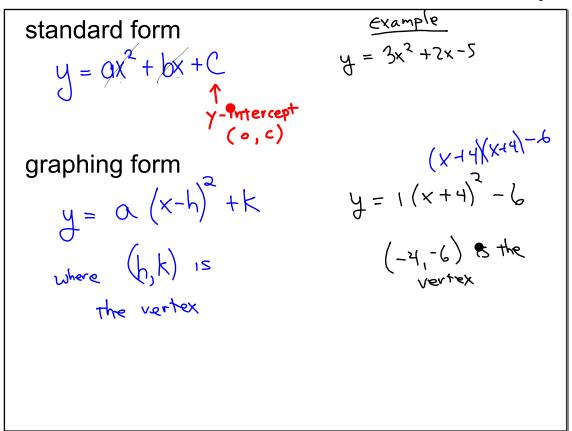


$$\chi = -\frac{3 \pm \sqrt{5}}{4}$$

$$\chi = -\frac{3 \pm 2}{4}36\lambda$$



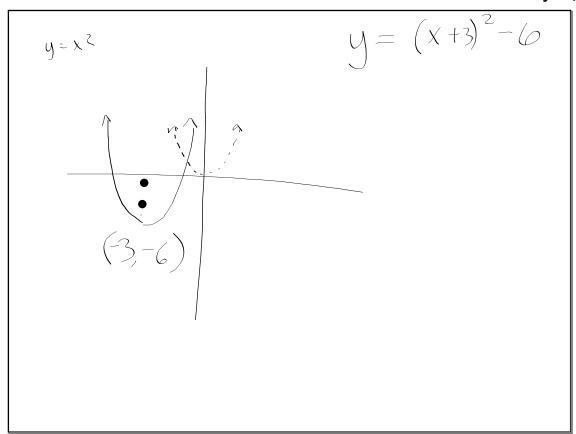


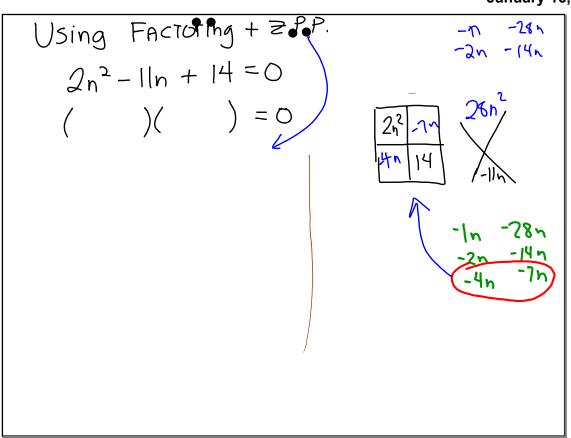


factored form  

$$y = \alpha (x+b)(x+c) \quad \text{where} \\ (-b, 0) \text{ and } (-c, 0) \\ \text{are the } x-\text{Intercepts}$$

$$y = \alpha (x-3)(x+7)$$





Using Factoring 
$$+ \ge PP$$
.  
 $2n^{2} - 1\ln + 14 = 0$   
 $(2n-7)(n-2) = 0$   
 $2n-7=0$   $n-2=0$   
 $2n-7=0$   $n-2=0$   
 $2n=7$   $n=2$   
 $n=\frac{7}{2}$   
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$$\chi = \frac{-(-11) \pm \sqrt{(-11)^2 - 4(2)(2+)}}{3(2+)}$$

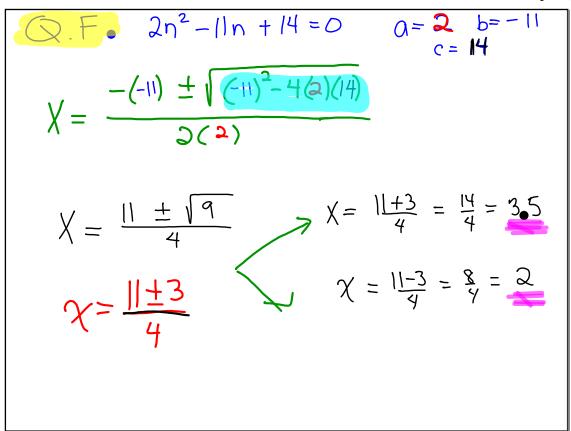
$$\chi = \frac{-(-11) \pm \sqrt{(-11)^2 - 4(2)(2+)}}{3(2+)}$$

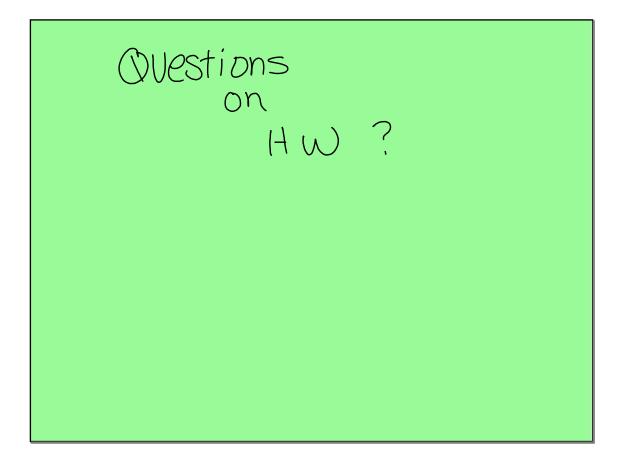
$$\chi = \frac{11 \pm \sqrt{9}}{4}$$

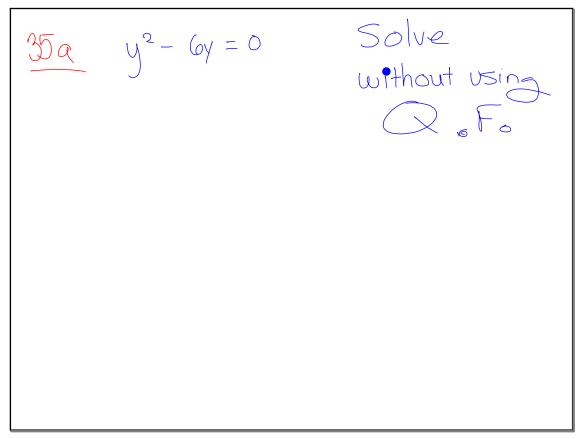
$$\chi = \frac{11 \pm \sqrt{9}}{4}$$

$$\chi = \frac{11+3}{4} = \frac{14}{4} = \frac{7}{2}$$

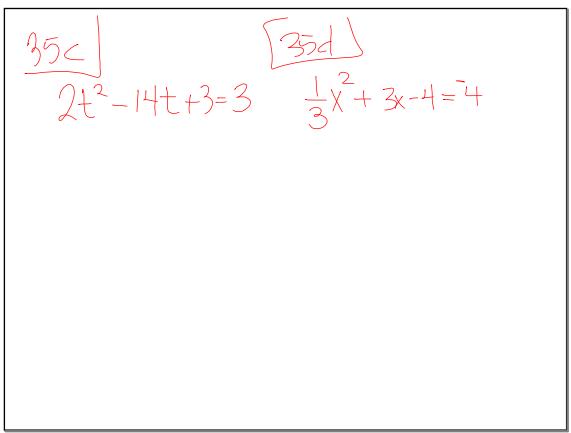
$$\chi = \frac{11+3}{4} = \frac{14}{4} = \frac{7}{2}$$

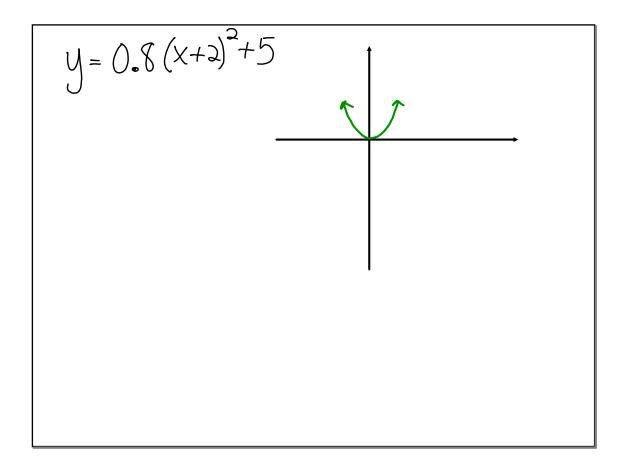




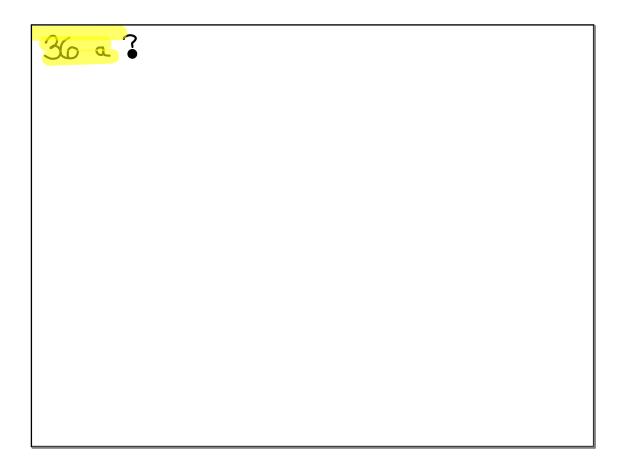


35b  $y^2 - 6y = 0$  [b]  $n^2 + 5n + 7 = 7$ 





 $\frac{40}{2} \left( 2x \cdot y^{-3} \right) \left( 3x^{-1} \cdot y^{5} \right)$  $2 \cdot x^2 \cdot y^{-3} \cdot 3 \cdot x^{-1} \cdot y^{-3}$  $(\varphi \cdot \chi^2 \cdot \chi^2 \cdot y^{-3} \cdot y^{-3} \cdot y^{-3} = (\varphi \times y^2)^2$  $= (\varphi \times y^2)^2$ 



$$36 \circ 0 = |x^{2} - |4x + 40$$
  

$$() = (x - 4)(x - 10)$$
  

$$x - 4 = 0 
x = 4 - x = 10$$
  

$$avg = \frac{4 + 10}{2} = 7$$
  

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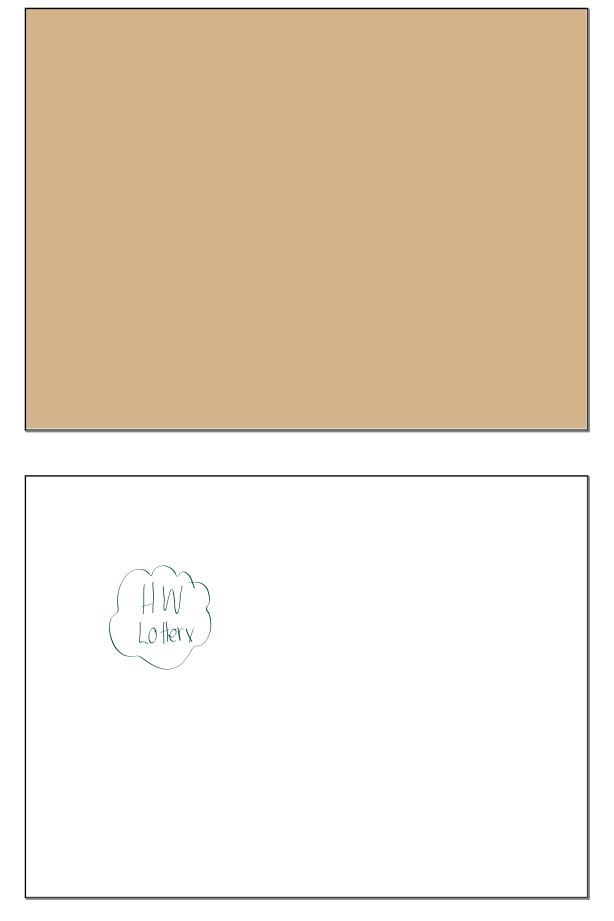
$$(7, -9)$$
  

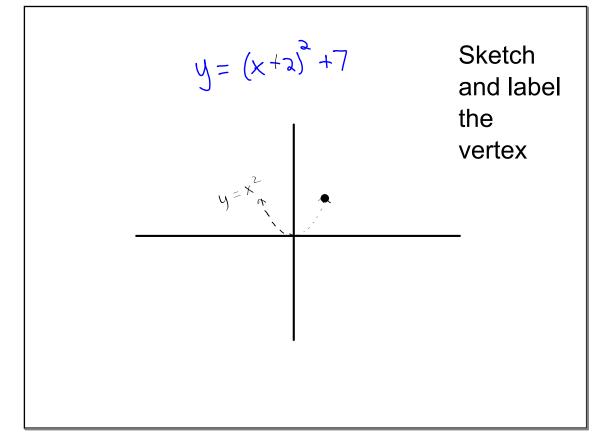
$$(7, -9)$$
  

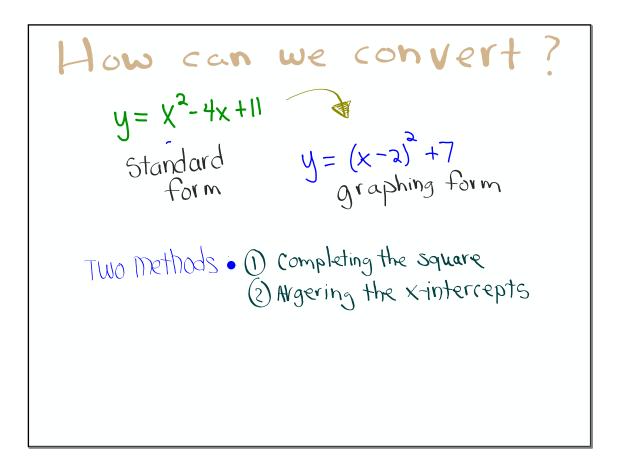
$$(7, -9)$$
  

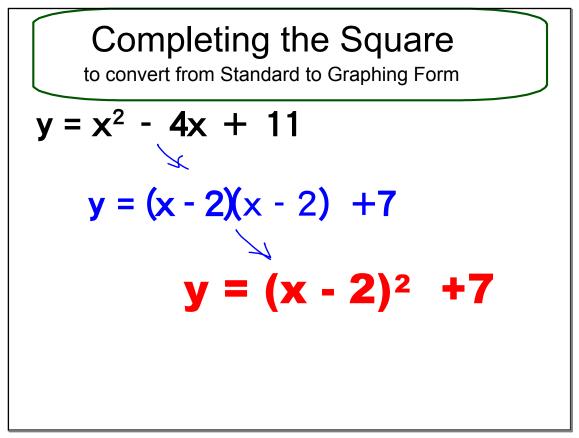
$$(7, -9)$$
  

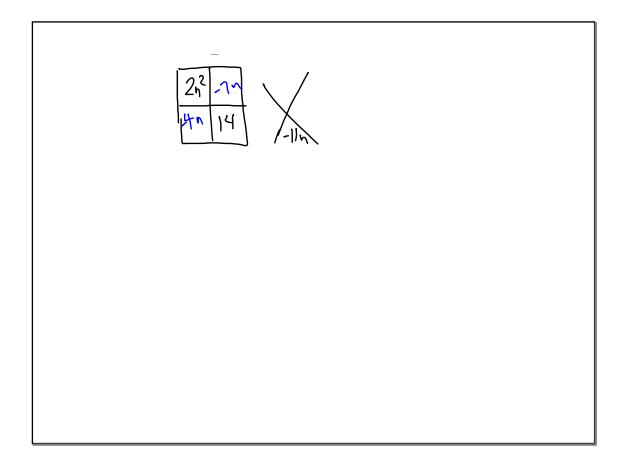
39 Make predictions about how many places each will touch the x-axis.  
(a) 
$$y = (x-2)(x-3)$$
 (b)  $y = (x+1)^2$   
(c)  $y = x^2 + 6x + 9$  (d)  $y = x^2 + 7x + 10$   
(e)  $y = x^2 + 6x + 8$  (f)  $y = -x^2 - 4x - 4$ 

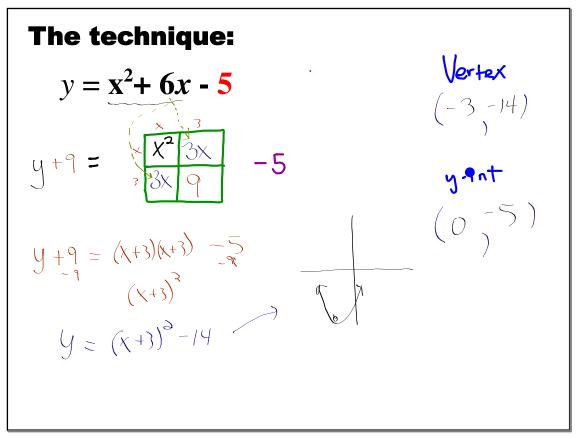


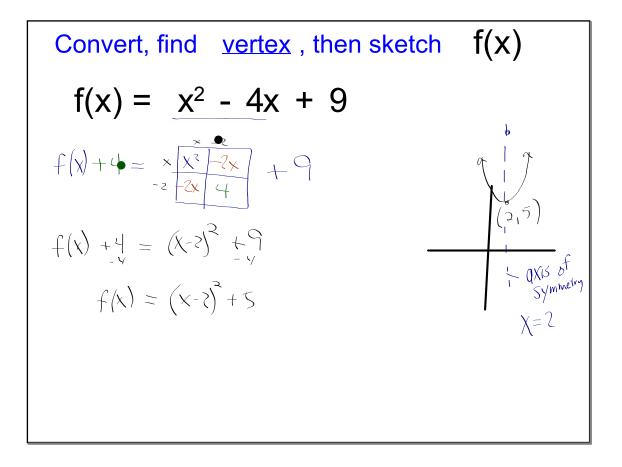


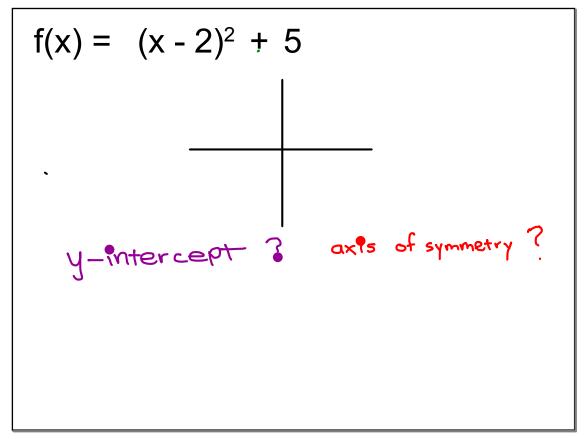


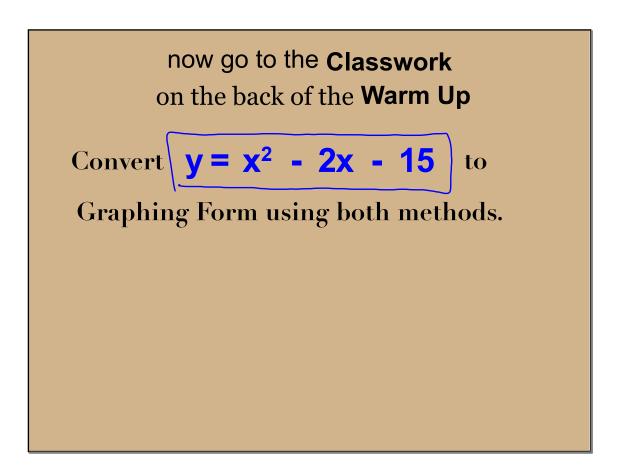


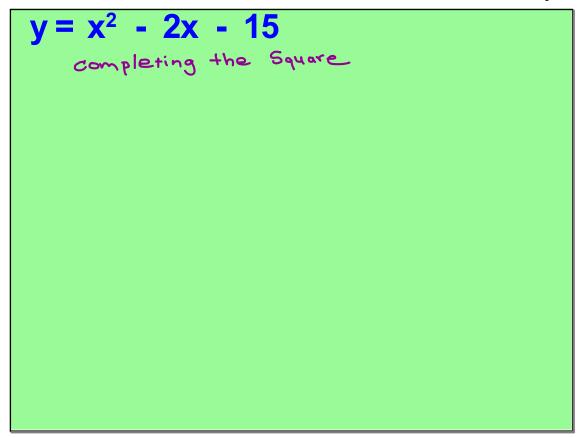


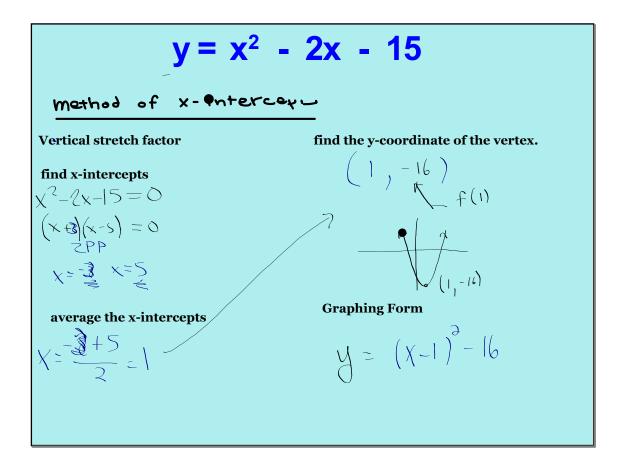


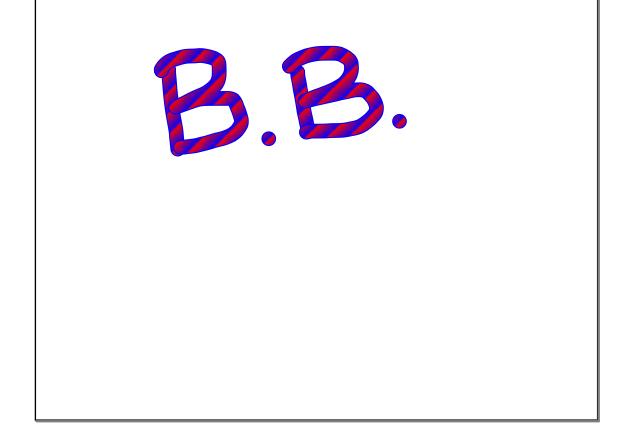


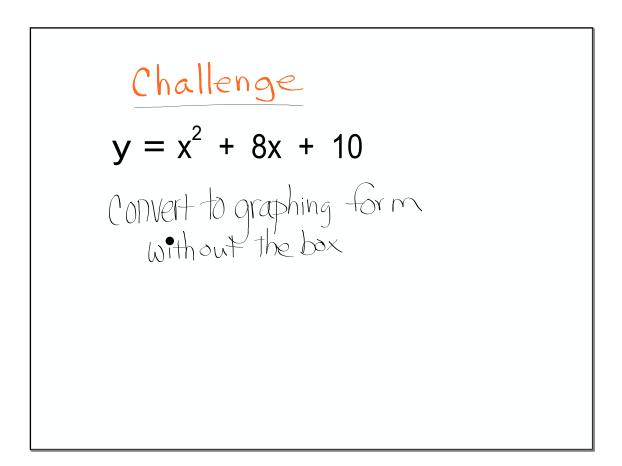












$$y_{-16}^{+16} = (x_{+4})^2 + 10$$

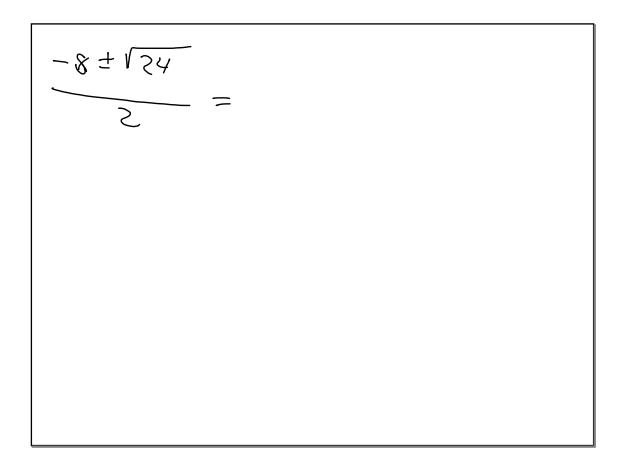
$$y_{-16}^{+16} = (x_{+4})^2 - 6 \sqrt{3}$$

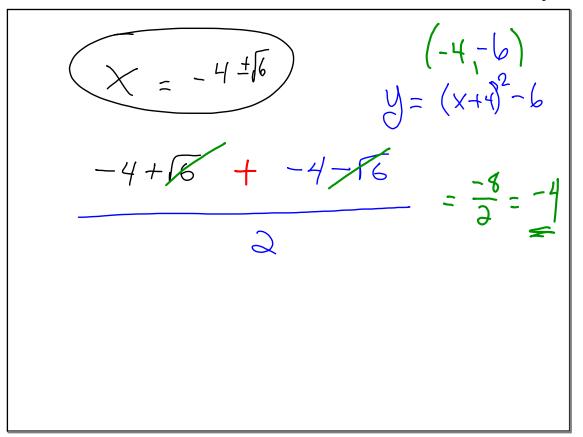
$$y_{-16}^{-16} = (x_{+4})^2 - 6 \sqrt{3}$$

$$0 = x^{2} + 8x + 10$$
  

$$0 = 1 + (-(-) \pm (-(-) \pm (-)) + (-)$$

 $f(x) = x^{2} + 8x + 10$  $\begin{array}{c} 0 = 1 \\ b = 8 \\ 0 = 10 \end{array} \quad x = \frac{-(8) \pm (8)^{2} - 4(1)(10)}{2(1)} \\ 2(1) \end{array}$ 





then by Completing the Square 
$$f(x) = x^2 + 8x + 10$$

## Assignment **2-** ..... 50ac, 52, 53a, 54, 55bc, 56a

Will be the last assignment to add to the Yellow recording sheet.... which will be turned in on Monday with its corresponding assignments.