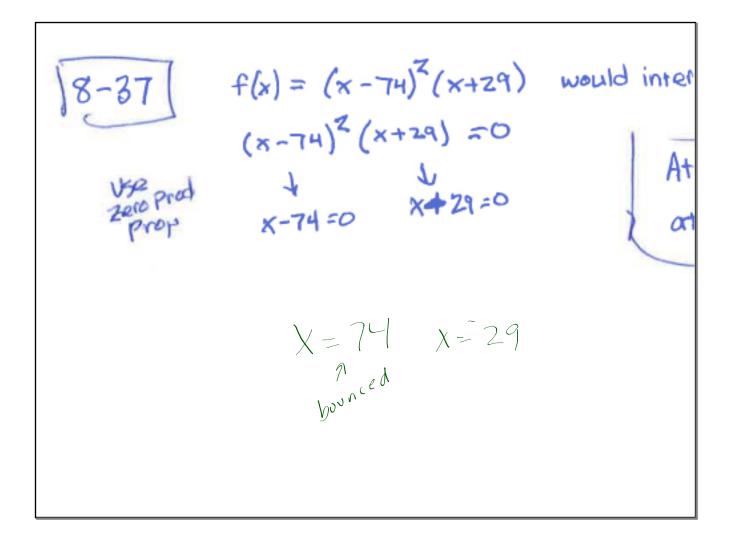
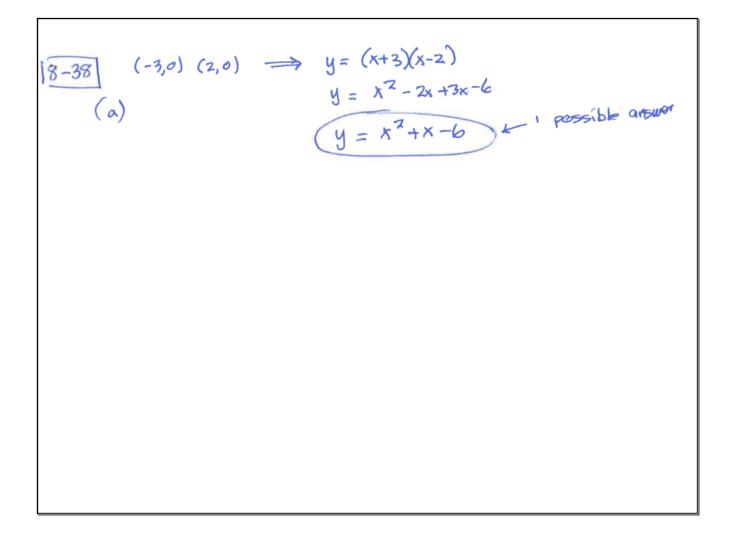
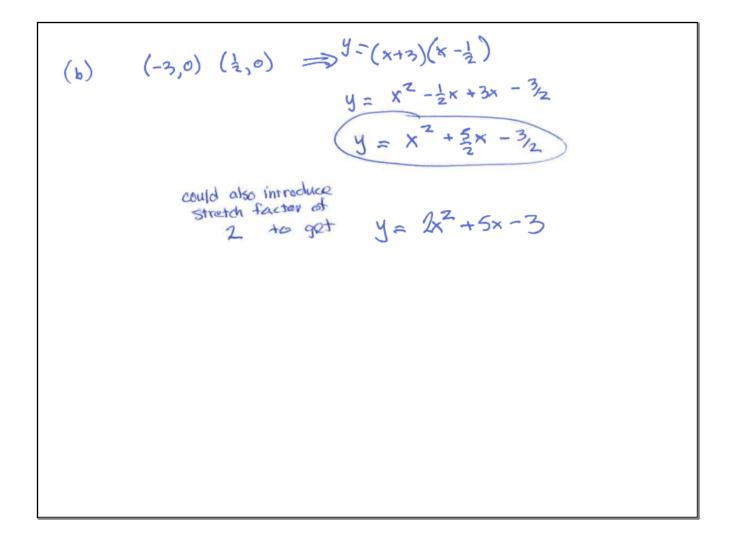


where does y = (x+3) = 5 cross x-axis? -> sor y=0 (x+3)2-5 =0 (-3+15,0) and (-3-15,0) (x+3)² = 5 x+3= ±5 x = -3 = 5

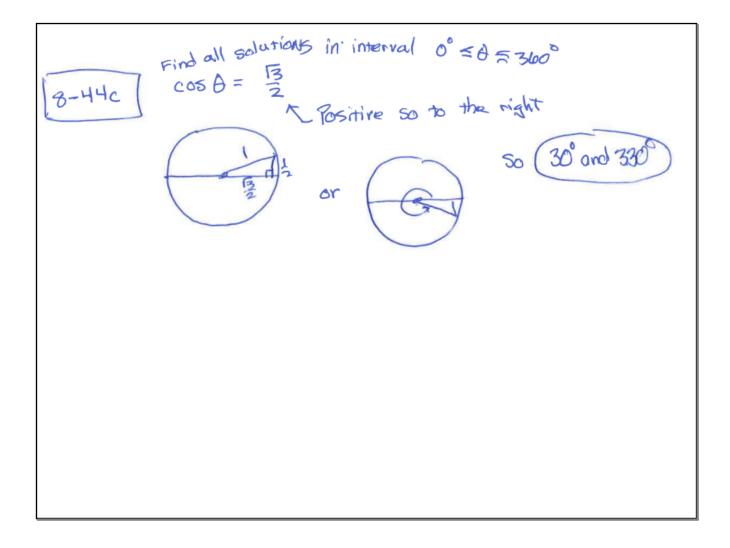


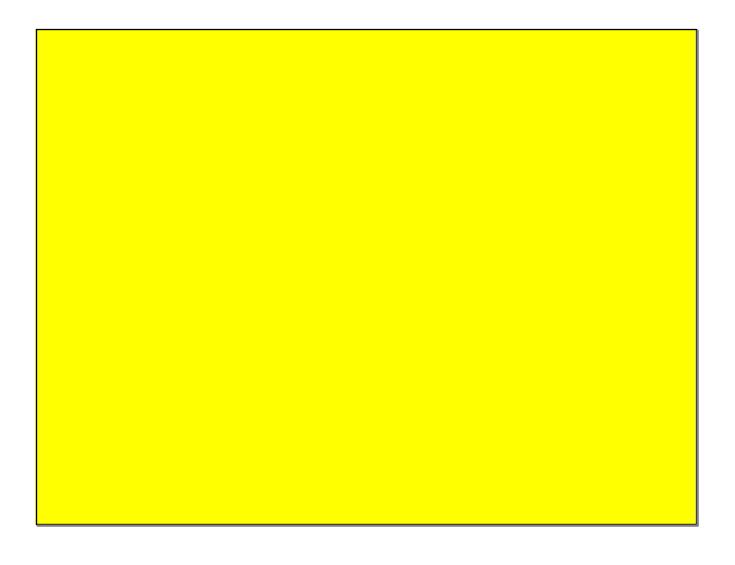


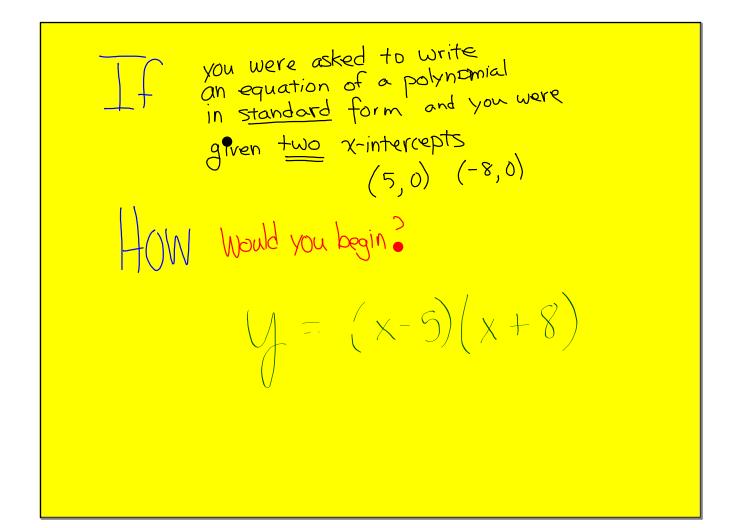


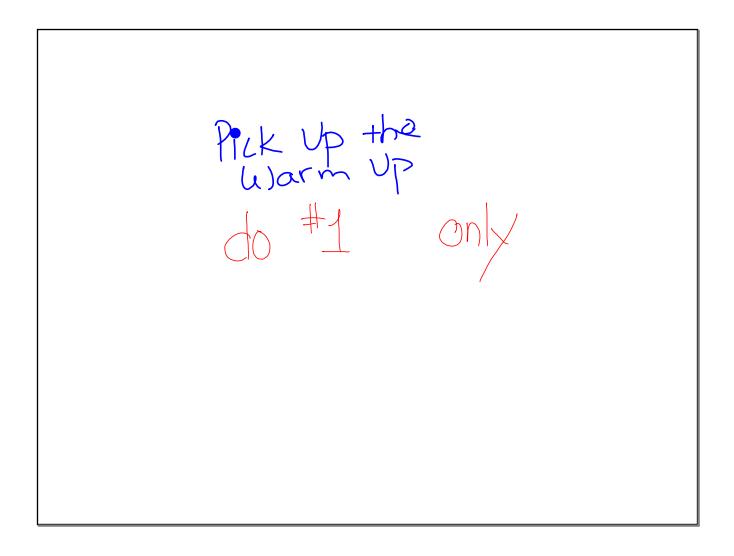
$$\begin{array}{c} 8-39 \\ b) \ y = 8x^{2} - \frac{1}{7}x^{5} + 9 \ degree 2 \\ b) \ y = 8x^{2} - \frac{1}{7}x^{5} + 9 \ degree 5 \\ c) \ f(x) = 5(x+3)(x-2(x+7)) \ degree 3 \\ d) \ y = (x-3)^{2}(x+1)(x^{3}+1) \ degree \end{array}$$

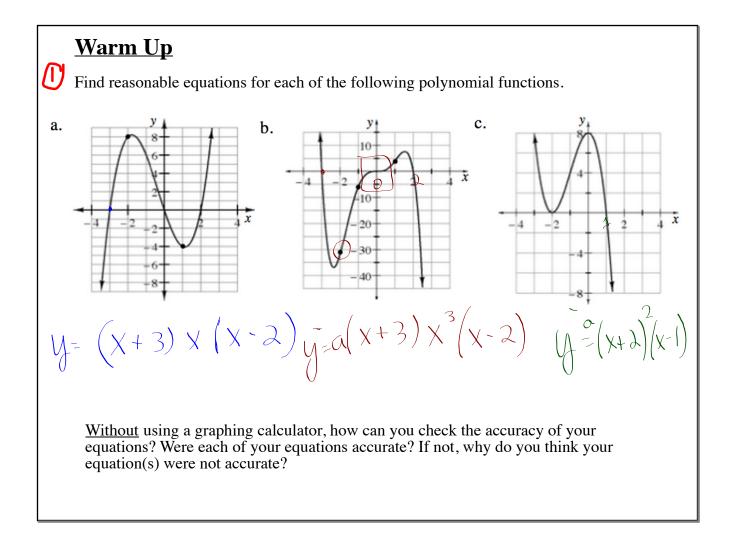
a) Brabolos are written as y=ax2 (polynomial) 8-40 b) Exponentials, y=2°, for example (Not) c) cubics y=2x³ (Polynomial - can be written) in form y=ax d) LINES y= 3x+2 (Polynomia) -7 e) cincles (NOT)

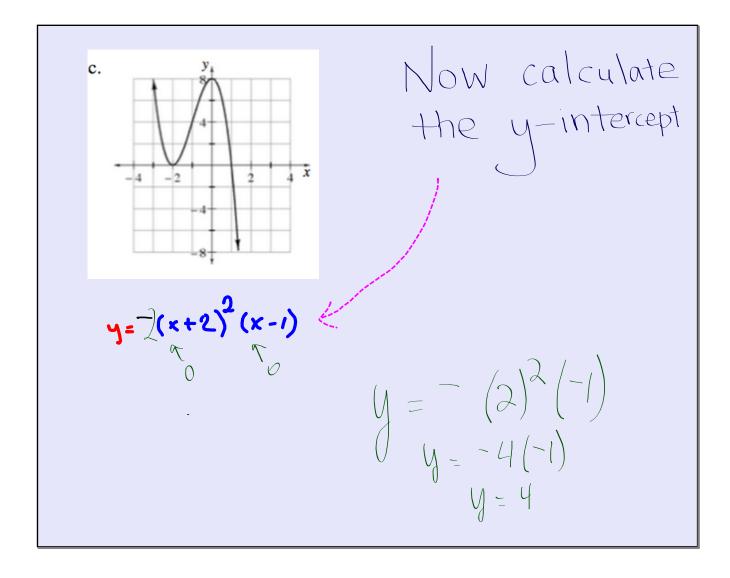










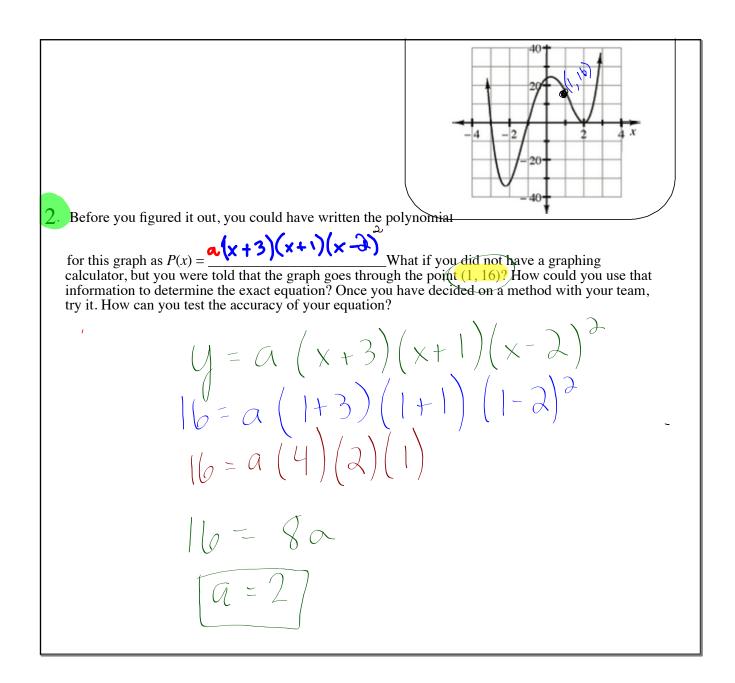


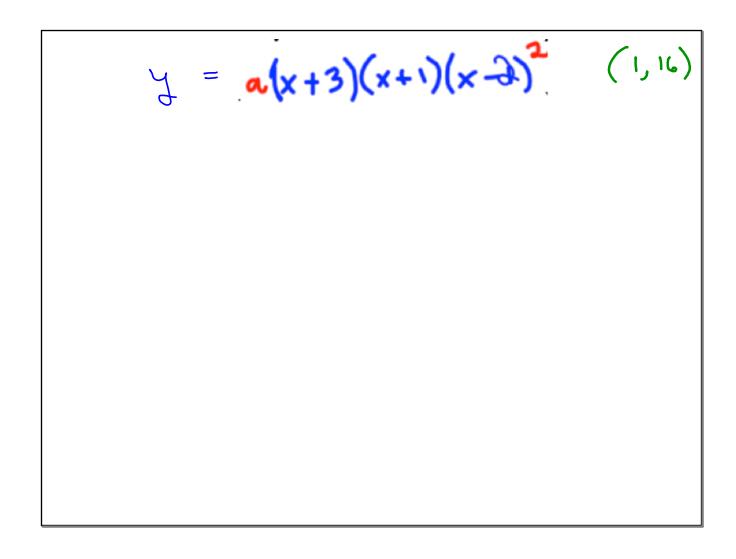
<u>today</u>

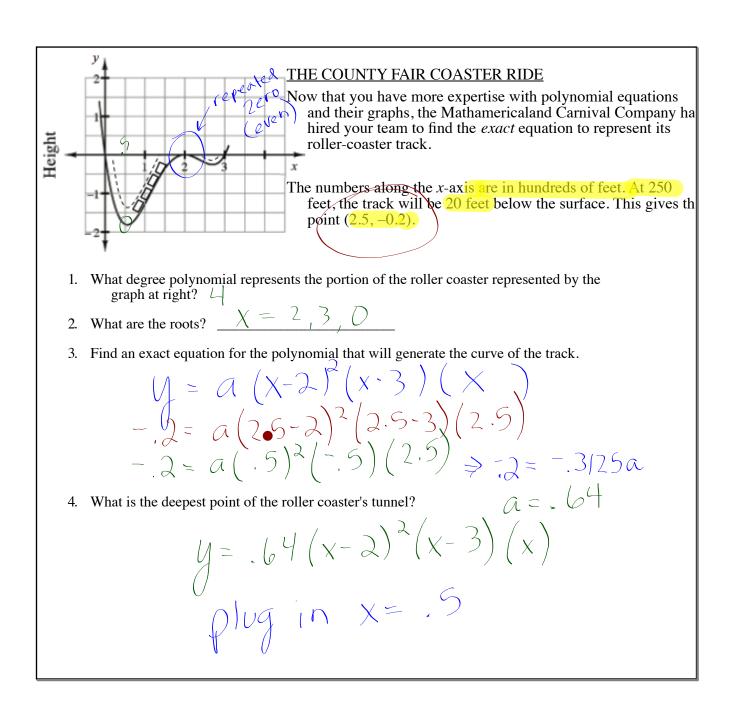
Create polynomial equations that represent <u>all</u> points on the graphs (not just the x-intercepts)

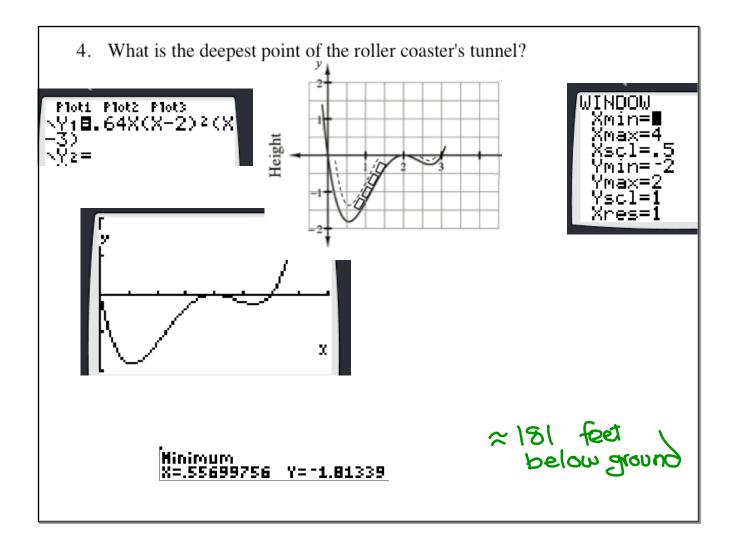


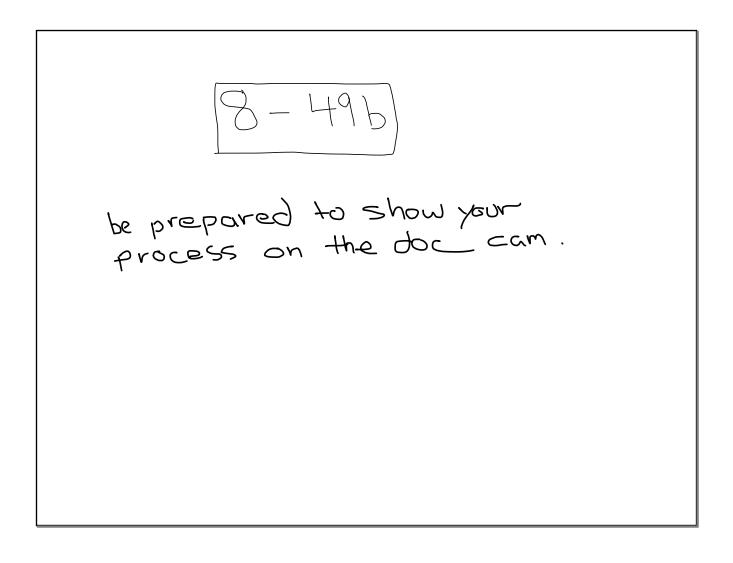
To be used later in class ARE THE INTERCEPTS ENOUGH? Suppose the person next to you wrote the equation $y = (x+3)(x+1)(x-2)^{2}$ to represent the graph at right. x 2 4 1. Explain how you can decide how well the equation represents the graph. What can you do to the equation to make it a *better fit* for the graph? What equation would fit better? Pick a point on the graph (x,y) and plug it in.

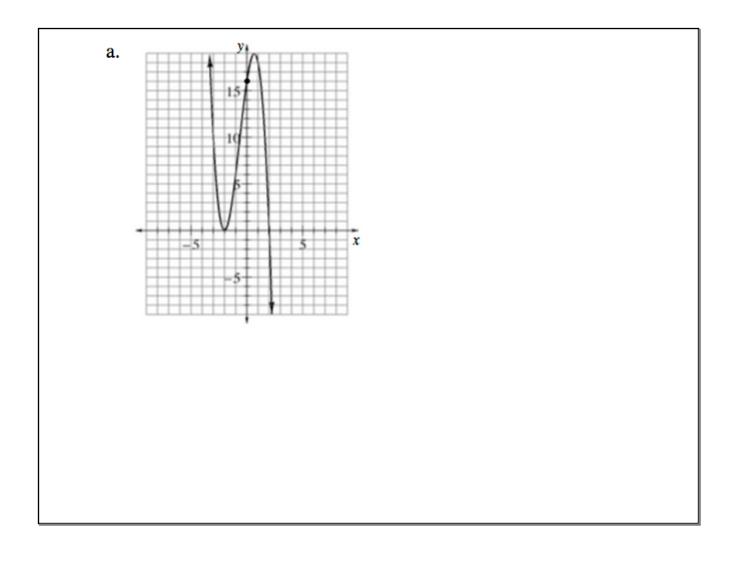


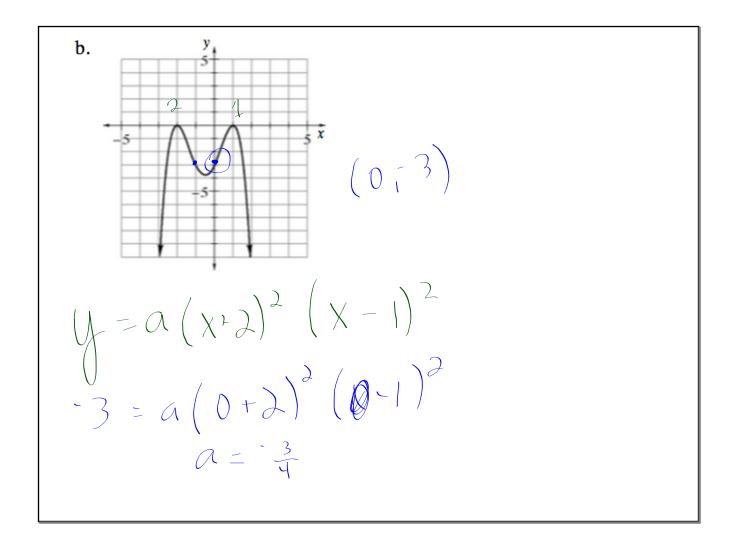




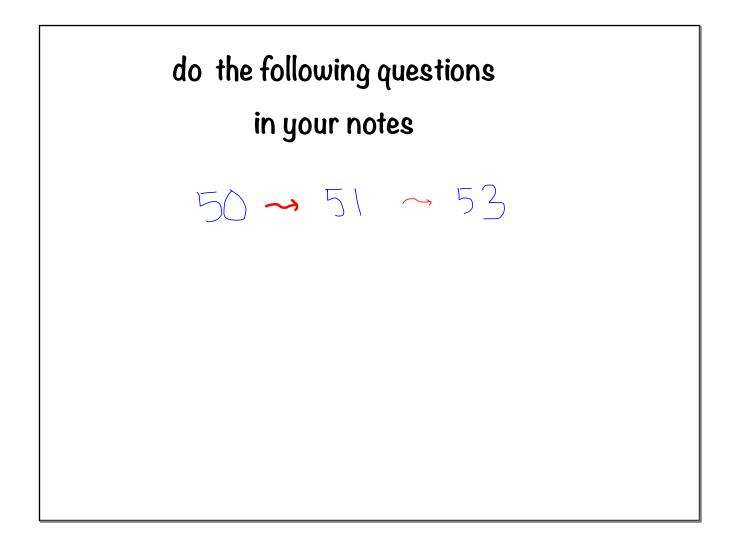


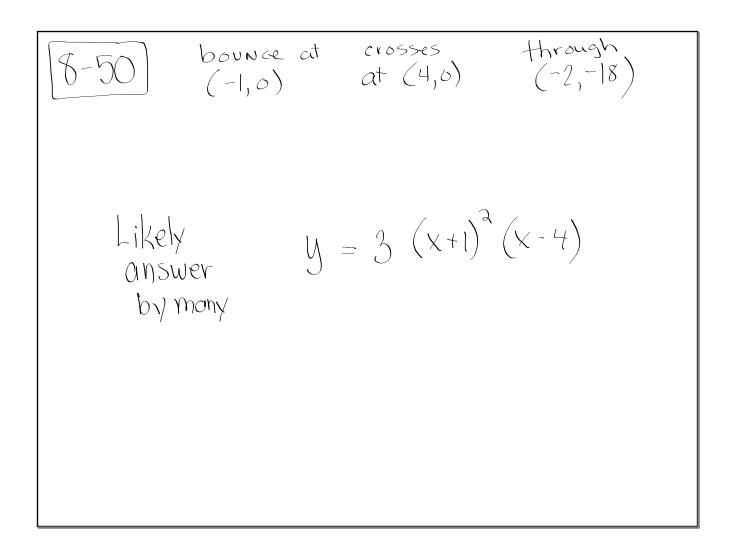


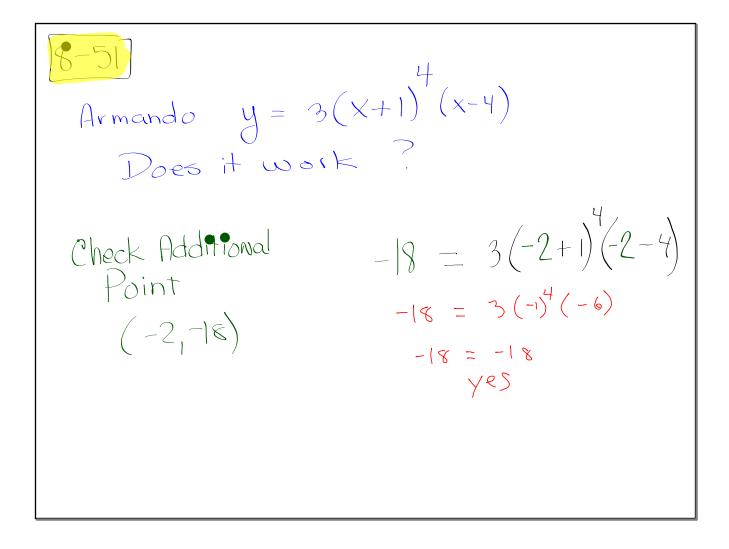












$$\frac{9 - 52}{9 - 36} = -36$$
New additional point (1, -36)

Armando's
 $y = 3(x+1)^{2}(x-4)$

 $-36 = 3(1+1)^{2}(1-4)$

 $-36 = -3(2)^{2}(-3)$

 $-36 = -36$

Armando's
 $y = -3(x+1)^{4}(x-4)$

 $= 3(1+1)^{4}(1-4)$

 $= 3(2)^{4}(-3)$

 $-36 \neq -36 = -36$

