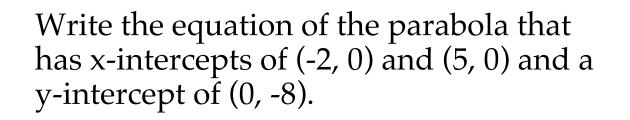
October 03, 2016

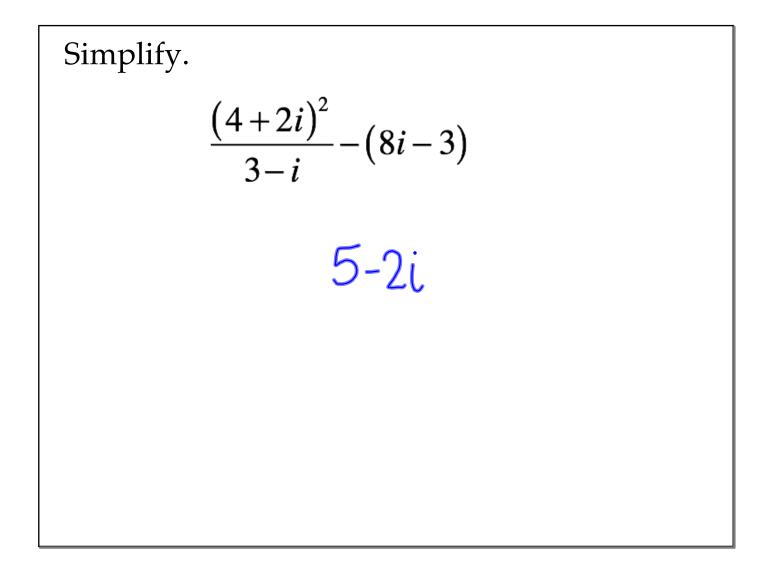
HAT 10/3/16 Chapter 4 Board Review

Write the equation of the parabola that passes through (2, -1) and has a maximum at (-3, 4).

 $y = -\frac{1}{5}(x+3)^{2}+4$

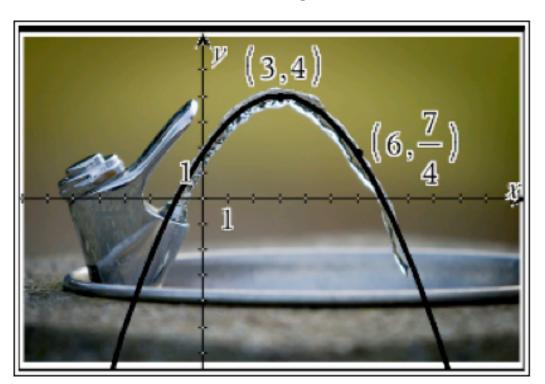


y= 4/5(x+2)(x-6)



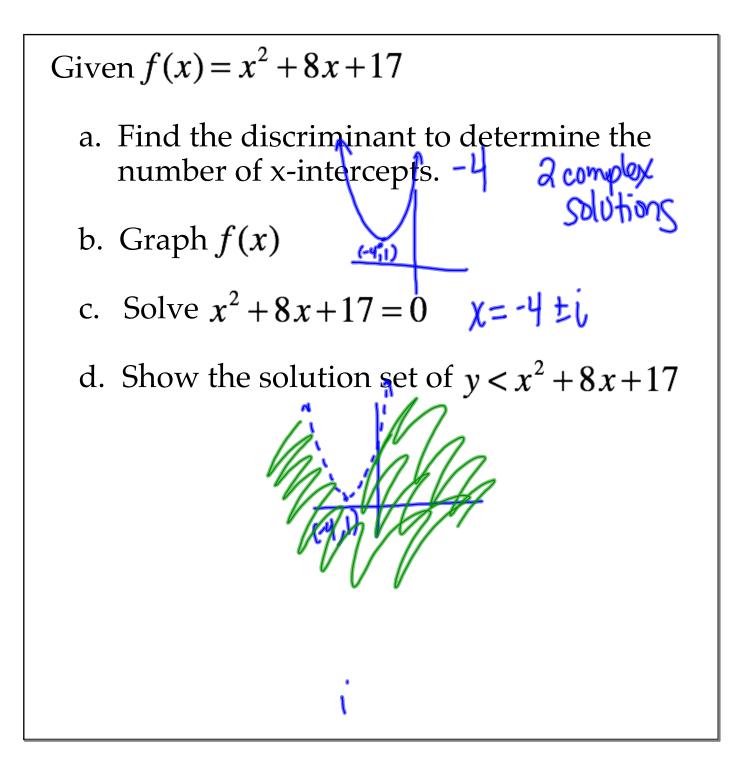
 $f(x) = 6x^2 + 10x - 4$

Mrs. Long fit a parabola to the stream of water from this drinking fountain.



Write the equation of the parabola in all three forms.

 $y=-\frac{1}{4}(x^2-6x-7)$ $y=-\frac{1}{4}(x-7)(x+1)$ Vertex: y==-1/4(x-3)+4 14 Standard: y=-1/4(x2-6x+9 y=-1/4x+ $y = -\frac{1}{4}x^{2}$



Graph. Label key features.

$$f(x) = 3x^2 + 12x - 8$$

$$y = \frac{1}{2}(x+2)^2 - 8$$

