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## Standards

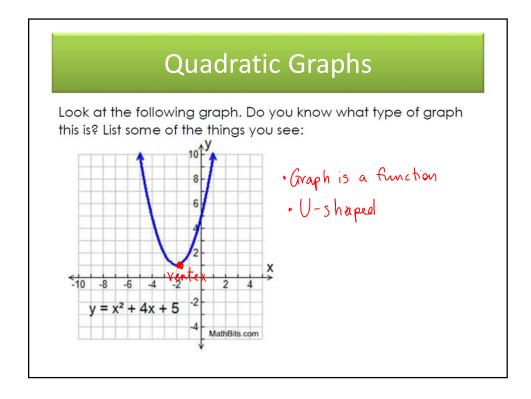
**MGSE9–12.A.SSE.3** Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.

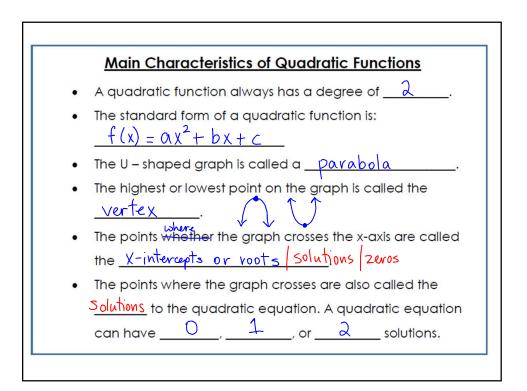
**MGSE9–12.A.SSE.3a** Factor any quadratic expression to reveal the zeros of the function defined by the expression.

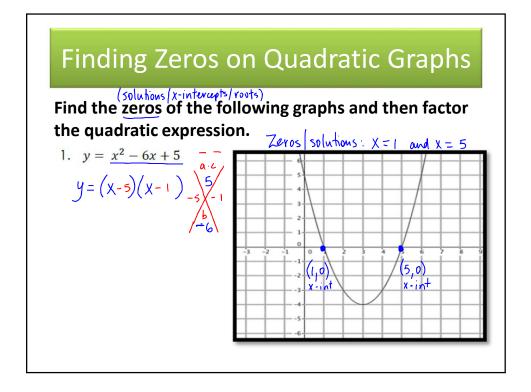
What do you already know about these standards?

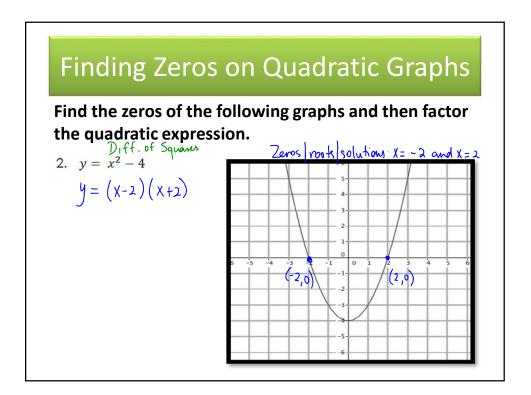


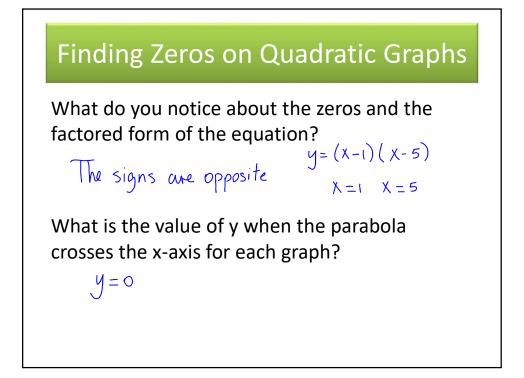
## **Zero Product Property**

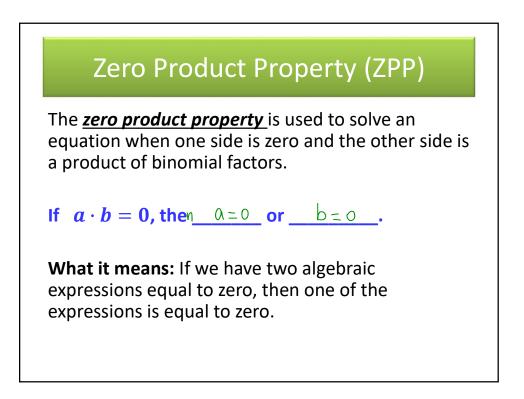


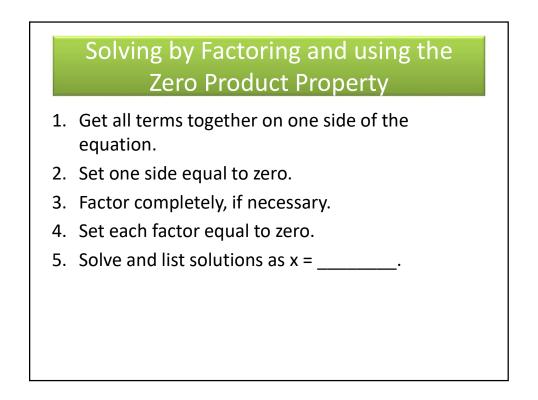


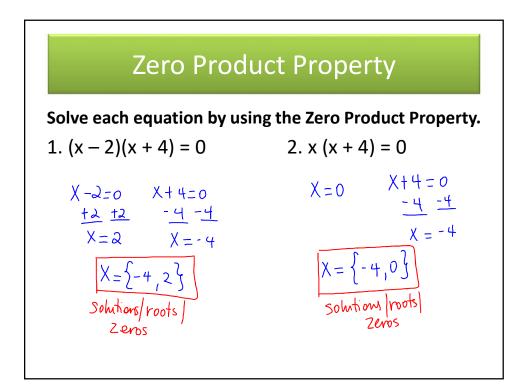












## Zero Product Property

Solve each equation by using the Zero Product Property.

3. 
$$y = x^{2} - 6x + 9$$
  
 $0 = x^{2} - 6x + 9$  (Factor - Pertect Square Trinomial)  
 $0 = (x - 3)^{2}$   
 $\begin{array}{c} x - 3 = 0 \\ \frac{+3}{x} = 3 \end{array}$ 

