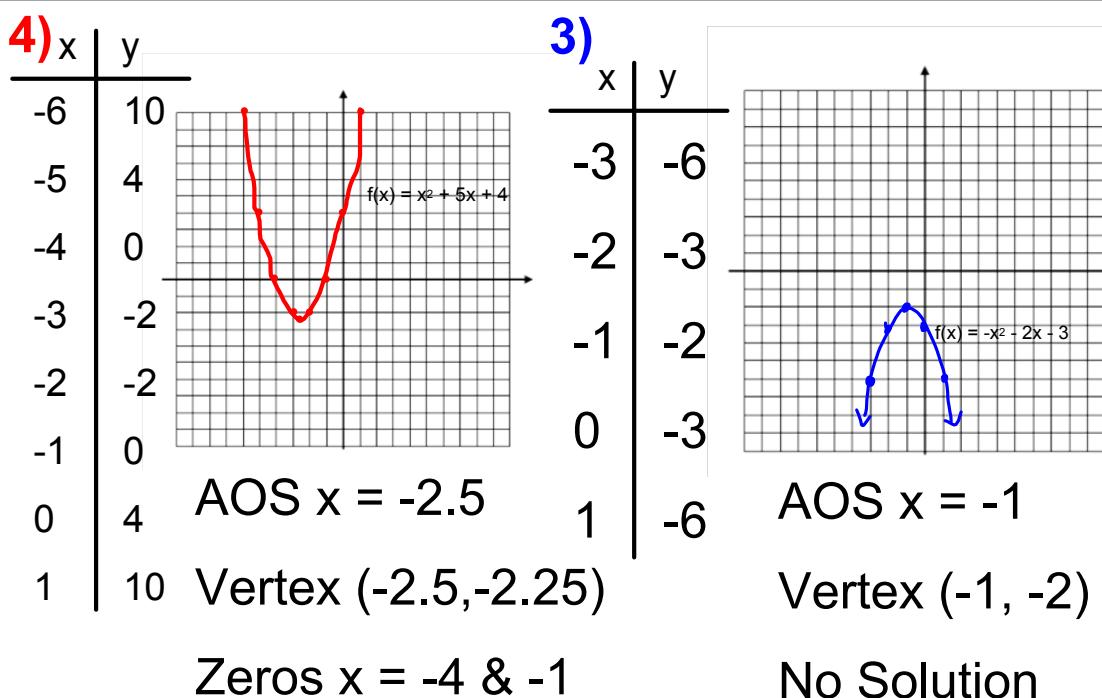


Do Now

Take out Packet from yesterday - Complete graph # 3 & 4

Apr 11-8:46 AM



Apr 18-10:11 AM

Vertex Form of a Quadratic Function

$$f(x) = a(x - h)^2 + k$$

Vertex (h, k)

Axis of Symmetry $x = h$

a tells the direction the parabola opens

$a > 0$: Positive $a < 0$: negative



Apr 3-8:40 AM

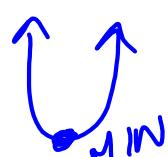
Without graphing, state the vertex and the equation for the axis of symmetry for each of the following quadratic equations

1) $y = 2(x - 5)^2 + 3$

Vertex $(5, 3)$

$$y = a(x - h)^2 + k$$

AOS
 $x = 5$



2) $y = (x + 2)^2 - 7$

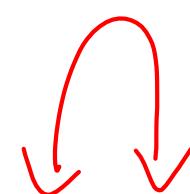
Vertex $(-2, -7)$

AOS
 $x = -2$

3) $y = -3(x + 4)^2$

Vertex $(-4, 0)$

AOS
 $x = -4$



Apr 3-9:01 AM