

11.7 d2 HW Wkst Key

Thursday, December 3, 2015
3:21 PM

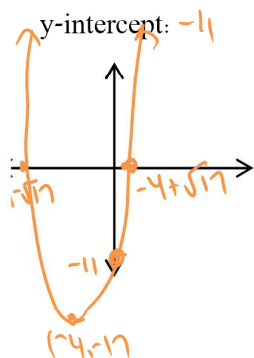
Integrated H
11.7 day 2 Worksheet

1. $0 = x^2 + 8x - 11$
 $+11 = x^2 + 8x + 16$
 $17 = (x+4)^2$
 solve: $\pm\sqrt{17} = x+4$
 $x = -4 \pm \sqrt{17}$

Vertex Form: $y = (x+4)^2 - 17$

Vertex: $(-4, -17)$

Solve: $x = -4 \pm \sqrt{17}$



Integrated H
11.7 day 2 Worksheet

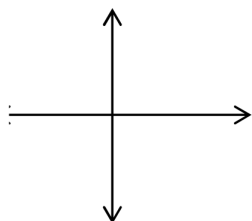
1. $0 = x^2 + 8x - 11$

Vertex Form:

Vertex:

Solve:

y-intercept:



2. $-10 = x^2 + 7x$

$-10 + \frac{49}{4} = (x + 7x + \frac{49}{4})$
 $2.25 = (x+3.5)^2$

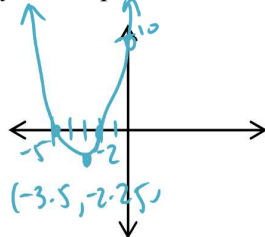
Solve: $\pm 1.5 = x + 3.5$
 $x = -3.5 \pm 1.5$
 $x = -2, -5$

Vertex Form: $y = (x+3.5)^2 - 2.25$

Vertex: $(-3.5, -2.25)$

Solve: $x = -2, -5$

y-intercept: 10



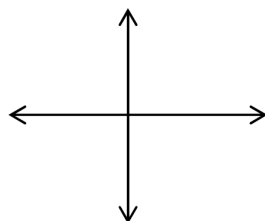
2. $-10 = x^2 + 7x$

Vertex Form:

Vertex:

Solve:

y-intercept:



Name _____
Period _____ Date _____

3. $3x^2 - 11x + 6 = 0$

$3(x - \frac{11}{3}x + \frac{121}{36}) = -6 + 3(\frac{121}{36})$
 $3(x - \frac{11}{6})^2 = \frac{49}{12}$

Solve: $x - \frac{11}{6} = \pm\sqrt{\frac{49}{36}}$

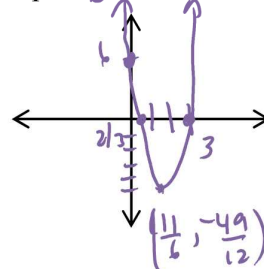
$x = \frac{11}{6} \pm \sqrt{\frac{49}{36}} = 3, \frac{2}{3}$

Vertex Form: $y = 3(x - \frac{11}{6})^2 - \frac{49}{12}$

Vertex: $(\frac{11}{6}, -\frac{49}{12})$

Solve: $x = 3, \frac{2}{3}$

y-intercept: 6



Name _____
Period _____ Date _____

3. $3x^2 - 11x + 6 = 0$

Vertex Form:

Vertex:

Solve:

y-intercept:

