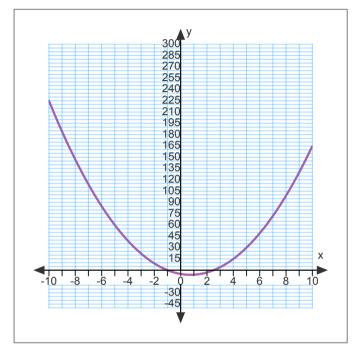
Section 10.3.notebook January 09, 2012

Solving Quadratics by Graphing



X-intercept(s)

$$y = 2x^2 - 3x - 5$$

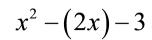
Find Zeroes:

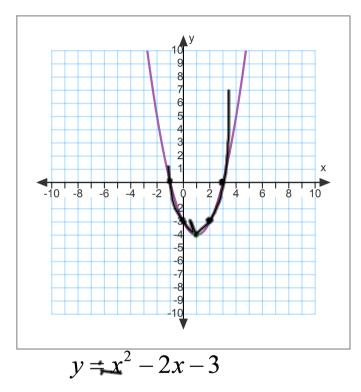
$$x = -1$$

$$x = 2.5$$

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How to Find Solutions by Graphing





$$x^2 - 2x = 3$$

Graph using the method we've

learned
$$\frac{1}{2a} = \frac{1^2 - 2(1) - 3}{1 + 2 + 3 = -4}$$

Be VERY CAREFUL (use graph

paper and curve templates)
$$\times$$
 y

$$-(^{2}-2(-1)-3)$$

$$0 -3$$
Identify the \bar{x} -intercepts -1

$$x = -(x = 3)$$

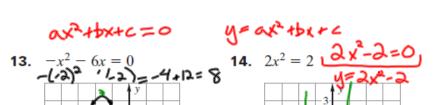
Check your answers

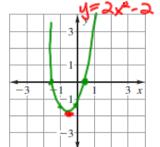
$$-|^{2}-\lambda(-1)-3 \leq 3^{2}-\lambda(3)-3=0$$

$$|+\lambda-3=0 \leq 9-6-3=0$$

$$|^{3}-3=0 \leq 9-9=0$$

$$|^{3}-9=0 \leq 9=0$$

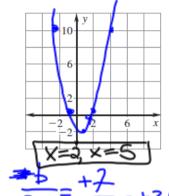




$$\frac{-b}{2a} = \frac{-0}{2(2)} = \boxed{0} \times$$

$$2\left(\frac{1}{2}\right)^2 - 2$$

15.
$$x^2 - 7x + 10 = 0$$



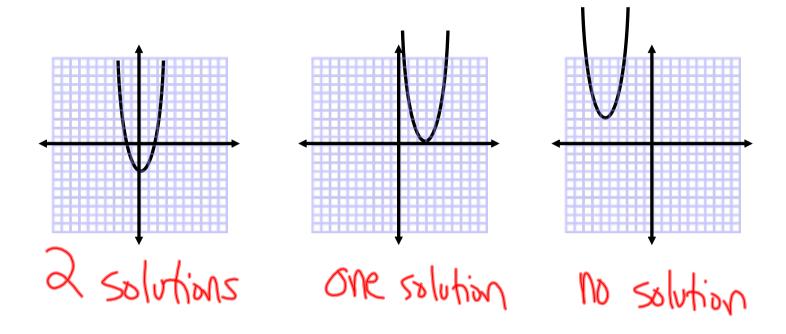
$$\frac{49}{4} - \frac{98}{4} + \frac{40}{40}$$

$$\frac{89}{4} - \frac{98}{4} = -\frac{9}{4}$$

$$= -2.5$$

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Number of Solutions of a Quadratic:



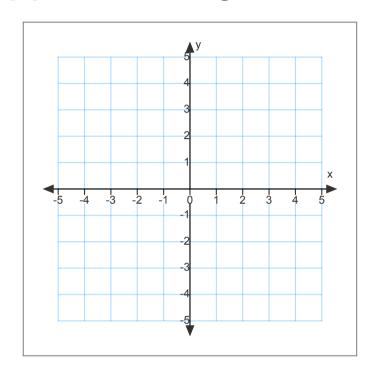
Finding the zeros of a quadratic function?

$$f(x) = x^2 + 6x - 7$$

$$y=x^2+6x-7$$

· graph
· find x-interepts = zeros of a
· check function

Approximating the zeros of a quadratic function



$$f(x) = x^2 + 4x + 1$$

- 1. Graph the function
- 2. Find the boundaries of the x-intercepts (zeros)
- 3. Estimate by using tables to find the x values that give you the y values closest to 0 (use 0.1

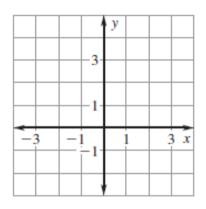
increments)

X	Y

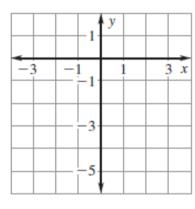
X	Y	

\mathbf{r}^2	工	4x	丄	
X	_	+ x	_	

13.
$$f(x) = -2x^2 + 5x + 1$$
 14. $f(x) = 3x^2 - 5$



14.
$$f(x) = 3x^2 - 5$$



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Homework: