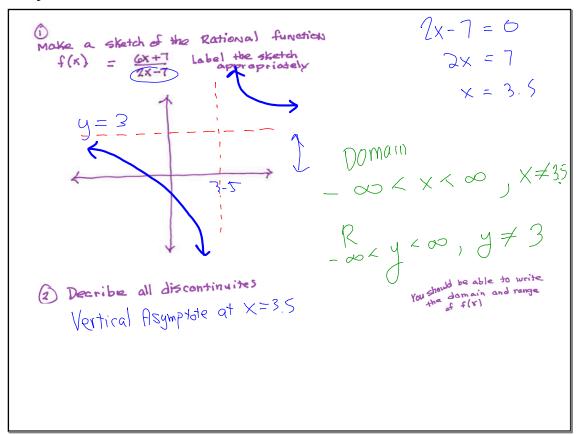
- Use the solutions to correct HW
- Then use the HW Help tally as needed.
- 3) I lass out the Warm Up

Check Work from HW

(Any questions?)



$$\frac{0}{2} \times \frac{1}{2}$$

$$\frac{6}{2} \times = 3$$

$$(x + 100)^{2} + (y + 90)^{2} = 144$$

radius 8

$$\left(\frac{-12}{2}\right)^2 \qquad \left(\frac{-8}{2}\right)^2$$

$$= 36 \qquad 16$$

circle any from
$$10 = 3x-7$$

$$0 = x^{2}-7x+2$$

$$5x^{2}-8x+100 = 7$$

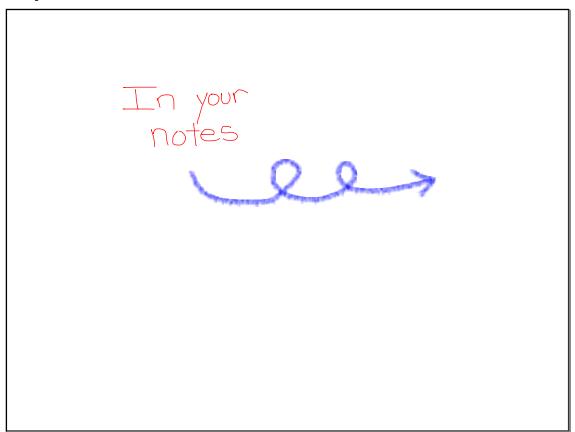
$$3x^{2}-x+1$$

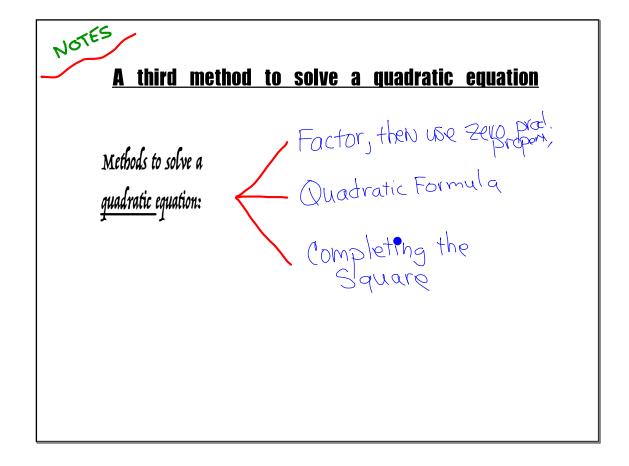
$$(x-2)^{2} = 17$$

$$x^{2}-1 = 0$$

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

$$-\frac{1}{3}(a+1)$$





Today's
Use completing the square to V
solve a quadratic equation

Simplify complex Algebraic fractions

Something we've never done before:

Solve the equation $X^2 - 4x - 5 = 0$ Using the idea of completing the square concept.

$$\chi^{2} - 4x - 5 = 0$$

$$+5 + 5$$

$$+5 + 5$$

$$\chi^{2} - 4x + 4 = 5 + 4$$

$$(x-2)^{2} = 9$$

$$x-2 = \pm 3$$

$$x-3 = 4$$

$$x=5$$

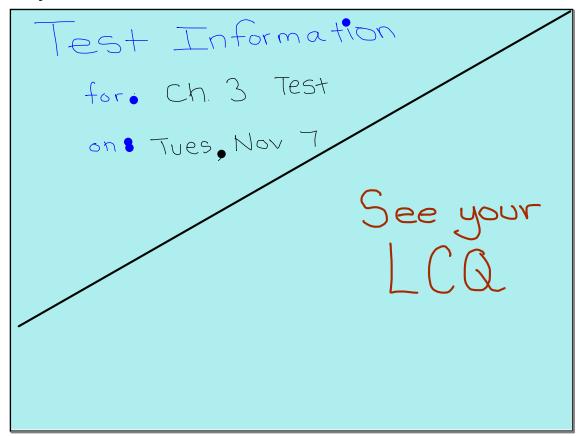
$$x=-1$$
Rewrite equation focusing on first two terms
$$(-4)^{2} = 4$$

$$(x-2)^{2} = 4$$

Another:

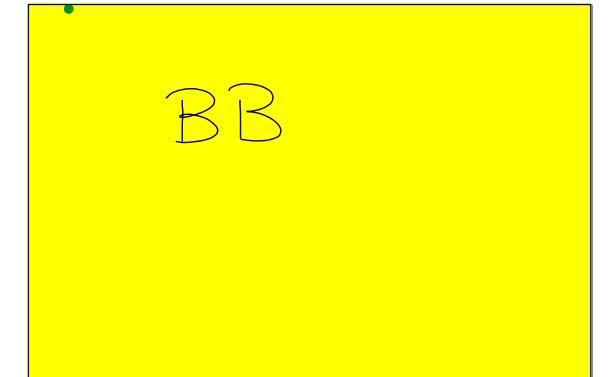
$$\chi^{2} = 10-12x$$

 $\chi^{2} + 12x + 10 = 0$
 $\chi^{2} + 12x + 36 = 10+36$
 $(x+6)^{2} = 46$
 $(x+6)^{2} = 46$



$$5 = x(x) + 4x$$

$$5 = x^2 + 4x - 5$$



John Use completing the square to vision solve a quadratic equation

Going deeper with

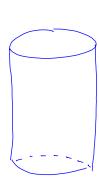
Rational Expressions

$$\frac{(5)}{5(2x)} - \frac{2(2)}{5x(2)} = \frac{1}{3}$$

$$\frac{5-4}{10x} = \frac{1}{3}$$

$$\frac{1}{10x} = \frac{1}{3}$$

$$\frac{1}{10x} = \frac{1}{3}$$



$$V = Tr^2$$

$$\frac{V}{SA} = \frac{\pi r^2 h}{2\pi r^2 + 2\pi r h} = \frac{Simplify}{i+}$$

Partner

Assign ment 3 113, 116 to 118 do 119 with your GDC