Questions?		



Chapter 5 Solving

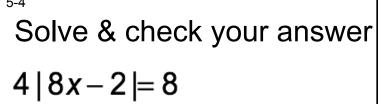
Objective:

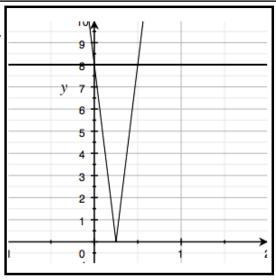
Be able to solve more challenging equations.

IC 5-4, 5-13, 5-14, 5-15

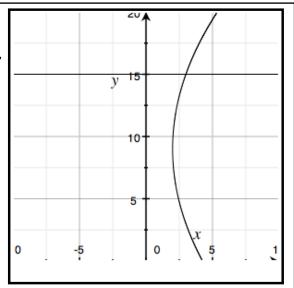
If we get there: HW 5-18 to 5-29

What strategies could you use to solve: $(x + 3)^2 - 5 = 4$

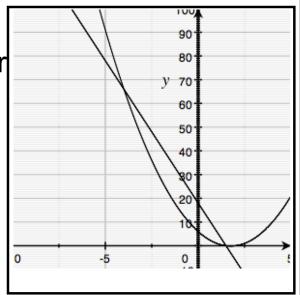




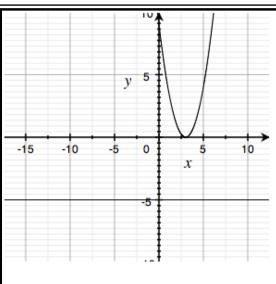
$$3\sqrt{4x-8}+9=15$$



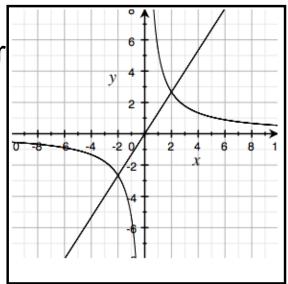
$$(2y-3)(y-2) = -12y+18$$



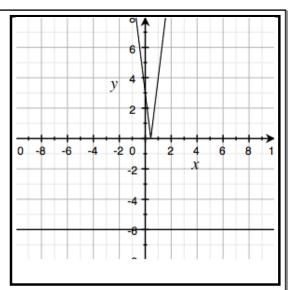
$$(x-3)^2-2=-5$$



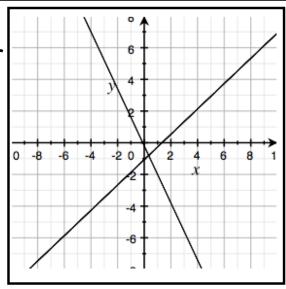
$$\frac{5}{x} + \frac{1}{3x} = \frac{4x}{3}$$



Solve & check your answer |3-7x|=-6

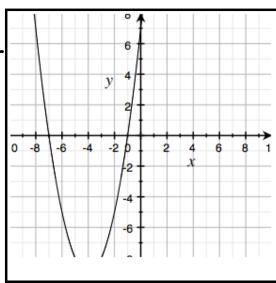


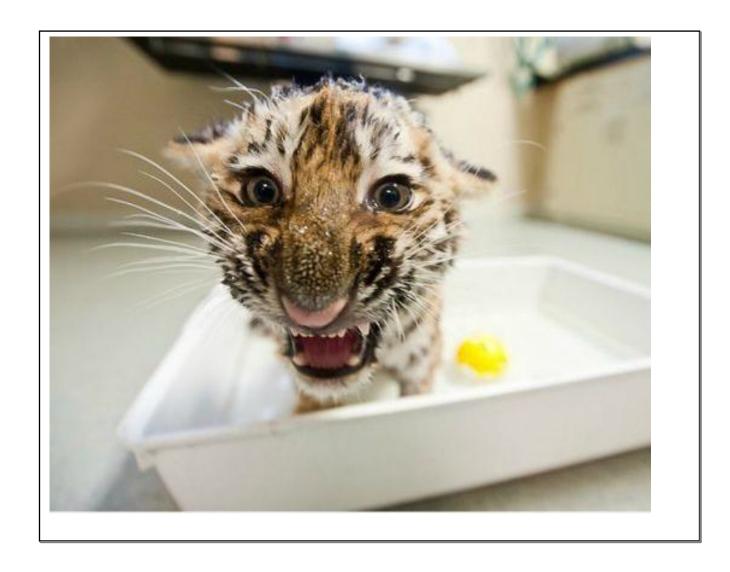
$$\frac{6w-1}{5} - 3w = \frac{12w-16}{15}$$



5-4 end of 5.1.1

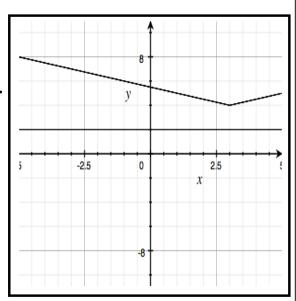
$$(x+2)^2+4(x+2)-5=0$$





Extraneous Solutions

$$0.5|x - 3| + 4 = 2$$





$$\sqrt{x} = 3\sqrt{(x+2)}$$

How many times can these two relations intersect?

- 1. a line and a parabola
- 2. two different parabolas
- 3. a parabola and a circle
- 4. a parabola and the hyperbola y = 1/x
- 5. the hyperbola and a circle

$$2x^2 + 5x - 3 = x^2 + 4x + 3$$

Do these two equations have a relationship?

$$2x^2 + 5x - 3 = x^2 + 4x + 3$$

 $y = x^2 + x - 6$

Try solving this algebraically.

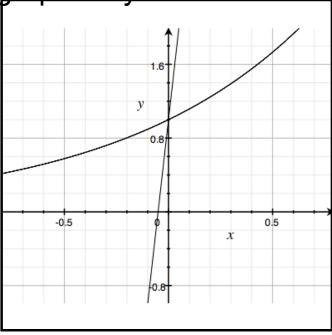
$$20x+1=3^{x}$$

Try solving this graphically.

$$20x+1=3^{x}$$

Try solving this graphically.

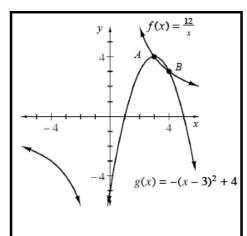
$$20x+1=3^{x}$$



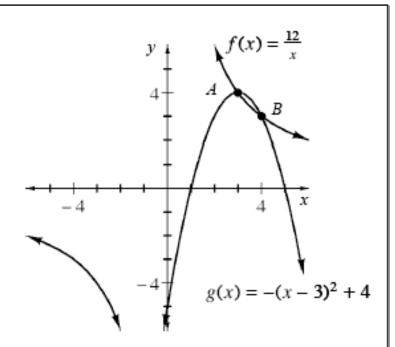
Find the equation that can be solved by 5-16 examining the intersections of these functions.

(Get rid of denominators first)

$$f(x) = \frac{12}{x}$$
 $g(x) = -(x-3)^2 + 4$



What sort of functions are they?



Are A and B the only solutions?

Find the intersection points of:

$$x^2 + y^2 = 25$$
 and $y = 1/7(x - 4) - 3$

HW 5-18 to 5-29

