

Warm-up 3/29/17

Factor each expression.

1. $-x^2 - 49x$

$$-x(x+49)$$

2. $x^2 - 6x - 72$

$$(x+6)(x-12)$$

P =	S =
-72	-6
1, -72	-71
2, -36	-34
3, -24	-21
4, -18	-14
6, -12	-6

$4x = 0$

$x = 0$

$zy = 0$

$z = 0 \quad y = 0$

Pg. 984

$$x^2 - 4x - 5$$

$$(x+1)(x-5)$$

$$x^2 - 4x - 5 = 0$$

$$(x+1)(x-5) = 0$$

$$x+1=0$$

$$x-5=0$$

$$x = -1$$

$$x = 5$$

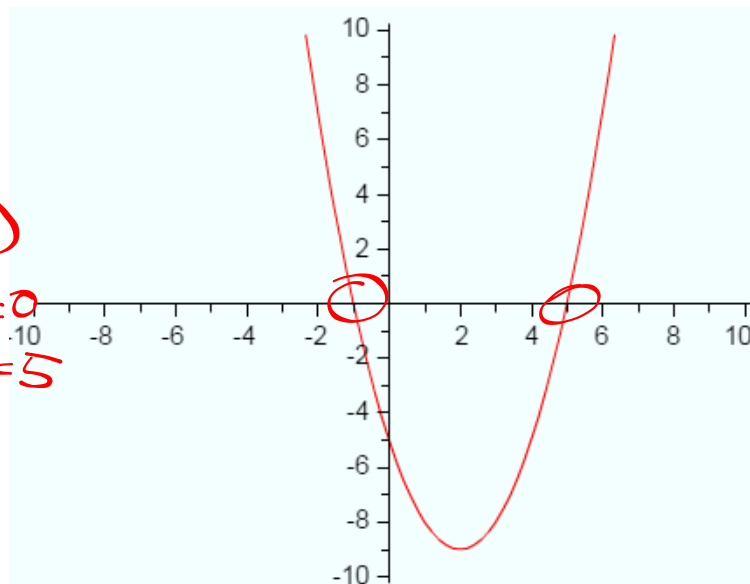
Pg. 985

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

$$y = (x+1)(x-5)$$

$$x+1=0 \quad x-5=0$$

$$x = -1 \quad x = 5$$



Pg. 986

3

4

$$x^2 - 8x + 12 = 0$$

$$(x-2)(x-6) = 0$$

$$x-2=0 \quad x-6=0$$

$$x=2 \quad x=6$$

$$x^2 - 5x - 24 = 0$$

$$(x+3)(x-8) = 0$$

$$x+3=0 \quad x-8=0$$

$$x=-3 \quad x=8$$

P =	S =
12	-8
-1, -12	
-2, -6	-8

$$x^2 + 10x - 75 = 0$$

$$(x-5)(x+15) = 0$$

$$x-5=0 \quad x+15=0$$

$$x=5 \quad x=-15$$

$$x(x-11)=0$$

$$x=0 \quad x-11=0$$

$$x=11$$