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

$4x = 0$

$x = 0$

$zy = 0$

$z = 0$ $y = 0$

Pg. 984

$x^2 - 4x - 5$

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

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

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

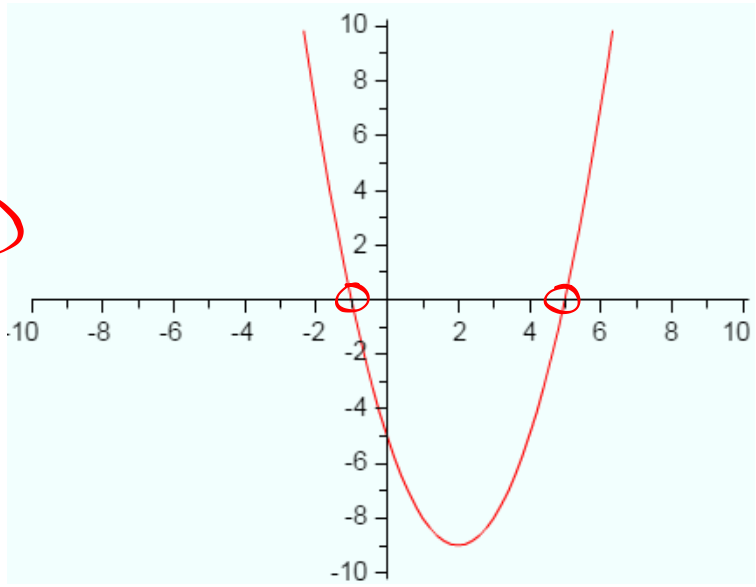
$x+1=0 \quad x-5=0$

$x=-1 \quad x=5$

Pg. 985

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

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



Pg. 986

3

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

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

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

$x=2 \quad x=6$

P = 12	S = -8
-1, -12	-13
-2, -6	-8

4

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

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

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

$x=-3 \quad x=8$

P = -24	S = -5
1, -24	-23
~~-1, 24~~	
2, -12	-10
3, -8	-5

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

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

$x=-15 \quad x=5$

$x(x-11)=0$

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

$x=11$