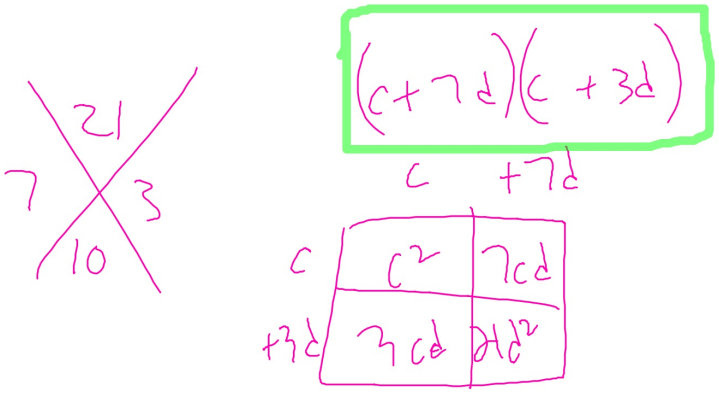
Factor: $c^2 + 10cd + 21d^2$



Hwk #32: Sec 9-5

Pages 483-484

Problems 14,15,28,29,33,46,47

Due tomorrow

Take a white board

What value of each variable makes the equation true?

1. $x + 4 = 0$ -4
2. $m - 3 = 0$ 3
3. $2G + 7 = 0$ $-\frac{7}{2}$
4. $9c - 5 = 0$ $\frac{5}{9}$

These values of the variables are
Solutions to the equation
also
Zeros of the function

What must be true about what is in the parentheses in order for this equation to be true?

$$(\quad)(\quad) = 0$$

this equals zero or this equals zero

Zero Product Property:

For every real number a and b, if $ab = 0$,

then either $a = 0$ or $b = 0$

Find the values of c that make this equation true

$(c + 7)(c - 3) = 0$

c = $-7, 3$

$c+7=0$ or $c-3=0$

Use your white board

Solve this equation

$(R - 8)(R - 5) = 0$

R = $8, 5$

Solve this equation

$(2K + 1)(K + 13) = 0$

K = $-1/2, -13$

$2k+1=0$ $k+13=0$

$-1/2$ -13

Solve this equation

$(4G + 3)(9G - 7) = 0$

G = $-3/4, 7/9$

Solve this equation

$(p + 8)(p + 8) = 0$

p = -8

Solve this equation

$(A - 11)(A + 11) = 0$

A = $11, -11$ or ± 11