Any questions from last day's homework?
pp. 253-255 #3bdfh, 6, 7, 8, 9bdf, 10, 11a, 13, 14

**Return SWYK 5.1**

**Collect homework from** Already Done; Spring 2017

# Today's Learning Goal(s):

By the end of the class, I will be able to:

a) factor more difficult polynomials by first finding **common factors**.

## Be ready for SWYK 5.2 (Monday) and SWYK 5.3 (Tuesday)!

MBF 3CI 5.4 Factoring Trinomials of the form $ax^2 + bx + c$ Date: Apr. 28/17

Review from yesterday's lesson:

1. Factor the following:

a) $x^2 + 7x$ b) $x^2 - 2.8x$ c) $x^2 - 49$ d) $y^2 - 121$

$= x(x+7)$ $= x(x-2.8)$ $= (x+7)(x-7)$ $= (y+11)(y-11)$

Today we are combining the types of factoring.

Remember: Always **look for common factoring first**

Ex.1 Factor the following completely.

a) $2x^2 + 18x + 40$ b) $3x^2 - 12$ c) $3x^2 - 39x + 90$

$= 2(x^2 + 9x + 20)$ $= 3(x^2 - 4)$ $= 3(x^2 - 13x + 30)$

$= 2(x+4)(x+5)$ $= 3(x+2)(x-2)$ $= 3(x-3)(x-10)$

1 30
2 15
-3 -10
5 6

d) $-2x^2+50$

$=-2(x^2-25)$

$=-2(x+5)(x-5)$

e) $-x^2+18x+40$

$=-1(x^2-18x-40)$

$=-(x+2)(x-20)$

f) $9.3y^2-46.5y$

$=9.3y(y-5)$

g) $-2x^2+16x-30$

$=-2(x^2-8x+15)$

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

h) $1.3x^2+3.9x-5.2$

$=1.3(x^2+3x-4)$

$=1.3(x+4)(x-1)$

i) $S.A._{Cylinder}=2\pi r^2+2\pi rh$

$=2\pi r(r+h)$

Entertainment: pp. 259-263 (do not "expand to check" – just use the back of the book to check)

#1ace, 2ace, 3a, 4ace, 5ace, 6, 11

Challenge: #15, 16

**Exit Card**

**Check each student's 1c, 2c and 5c before they leave.**

**Be ready for SWYK 5.2 (Monday)**

**and SWYK 5.3 (Tuesday)!**