

## Tuesday, Feb. 12, 2013

Agenda:

- TISK & 2 MM
- Lesson 13-3: Adding Polynomials
- Homework: 13-3 problems in Ch13 HW Packet 2

TISK

1) Write the equation of a line in slope-intercept form that passes through the points (5, 19) and (-7, 31).

2) Solve the proportion:  $\frac{5-x}{3} = \frac{x}{12}$

3) Avery has a bag of 100 jelly beans. Thirty are red, 15 are green, 20 are yellow, 25 are blue, and the rest are orange. If she draws two jelly beans from the bag randomly, what are the chances they'll both be blue?

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## §13-3 Adding Polynomials

- When you add polynomials you must add like terms only!
- You may do so *vertically* or *horizontally*.

$$(5x^3 - x + 2x^2 + 7) + (3x^2 + 7 - 4x) + (4x^2 - 8 - x^3)$$

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

$$2x^2 + 3x^2 + 4x^2 = 9x^2$$

$$-x - 4x = -5x$$

$$7 + 7 - 8 = 6$$

$$4x^3 + 9x^2 - 5x + 6$$

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Let's see that vertically:

$$(5x^3 - x + 2x^2 + 7) + (3x^2 + 7 - 4x) + (4x^2 - 8 - x^3)$$

$5x^3$	$+ 2x^2$	$- x$	$+ 7$
$0x^3$	$+ 3x^2$	$- 4x$	$+ 7$
$- x^3$	$+ 4x^2$	$+ 0x$	$- 8$
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$4x^3$	$+ 9x^2$	$- 5x$	$+ 6$

$$4x^3 + 9x^2 - 5x + 6$$

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**Your Turn!**

$$(-8x^3 + x - 9x^2 + 2) + (8x^2 - 2x + 4) + (4x^2 - 1 - 3x^3)$$

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**Try another!**

$$(-20x^4 + 9x^2 - 13) + (7x^2 - 5x + x^3) + (9x^5 - 7x^2 + 42x^3 - 12)$$

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