Monday, November 26, 2012

Agenda:

- TISK Problems, No MM
- Brief Test Review
- Start lesson 10-6: Solving Systems
- Homework: p.525-526 #1-4 &17-20

TISK Problems

- **1)** Simplify: 3x 5y + (12x + 7y)
- 2) Evaluate: $-6(-8 \cdot -3)$
- 3) Find the requested information. Write your answer as a complete sentence. Mika earns a 3% commission on her weekly sales plus a \$450 weekly salary. If her sales totaled \$4,050 last week, how much did she earn for the week?

Chapter 9 Test

- Class Averages:
 - 7D: 78.4%
 - 7B: 83.9%
 - 7C: 84.4%
- Overall good work!
- Remember that you can get your test signed for an additional 2 points of extra credit. Signatures are due one week from today; December 3.
- Most issues were in the REVIEW section (problems 30-40)!

- A *system* of equations is a set of two or more equations.
- A solution to a system of equations is a set of values that are solutions of <u>all</u> the equations.
- Goal #1: Identify a Solution to a System
 - Determine whether each ordered pair is a solution of the system of equations below.
 - 5x + y = 7• x - 3y = 11a) (1, 2)b) (2, -3)c) (20,3)a) (1, 2)b) (2, -3)c) (20,3)a) (1, 2)Let x = 1 and y = 2. 5x + y = 7 5(1) + 2 = 77 = 7

x - 3y = 111 - 3(2) = 111 - 6 = 11

 Determine whether each ordered pair is a solution of the system of equations below.
a) (1, 2)

Let x = 1 and y = 2. • 5x + y = 7x - 3y = 115x + y = 7• x - 3y = 111 - 3(2) = 115(1) + 2 = 7a) (1, 2) No 1 - 6 = 117 = 7 b) (2, -3) Yes -5 = 11c) (20,3) No b) (2, -3) c) (20, 3) Let x = 2 and y = -3. x - 3y = 11Let x = 20 and y = 3. 5x + y = 75(2) + (-3) = 7 2 - 3(-3) = 115x + y = 75(20) + 3 = 72 + 9 = 1110 - 3 = 7100 + 3 = 711 = 11103

- You need ALL "Yes" answers for the ordered pair to be a solution.
- You need only ONE "No" for the ordered pair to NOT be a solution.

- You try it.
- Determine if the ordered pair is a solution of the system.
 - y = 2x
 - y = -4x + 12
 - a) (2, 4) b) (-3,-6) c) (3,0)

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Homework

Determine if the ordered pair is a solution of each system of equations.

1.	(2, 3)	y = 2x - 1	17. (0, 1)	y = -2x - 1
		y = x + 1		y = 2x + 1
2.	(2, 7)	y = 5x - 3	<mark>18</mark> . (5 <i>,</i> 11)	y = 3x - 4
		y = 3x + 1		y = 2x + 1
3.	(2, 4)	y = 4x - 4	<mark>19</mark> . (-1, 5)	y = 4x + 1
		y = 2x	20. (-6 <i>,</i> -9)	y = 3x $y = x - 3$
4.	(2, 2)	y = 2x + 1	20. (-0, -5)	y = x - 3 $y = 2x + 3$
		y = 3x - 2		<i>y</i> _ <i>n</i> + 0