Wednesday, November 28, 2012

Agenda

- TISK & 2 MM
- Homework Check
- Conclude Lesson 10-6: Solving Systems
- Homework: p. 526 #33-41 odd

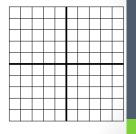
TISK Problems

- 1) Simplify: -8x + 17y (7x 18y)
- 2) Evaluate: $-4(-9 \cdot 5)$
- 3) Find the requested information. Write your answer as a complete sentence.

Christian earns a 5.5% commission on his weekly sales plus a \$150 weekly salary. If his sales totaled \$47,000 last week, how much did he earn for the week?

Homework Check

- 1) (2, -4)
- 2) (0, 2)
- 3) (-1, -3)
- 4) (4, 0)
- 5) (4, 3)



§10.6 Solving Systems

- Another way to solve a system of equations is by using the substitution method.
- In this method, you follow a few basic steps:
 - 1) Solve all equations for y.
 - 2) Set the x parts of the equations equal.
 - 3) Solve for x.
 - 4) Plug the x-value back in to find y.

Example. Solve the system by substitution. • y = 3x - 1Our goal is to find out when these y-values are the same. Therefore, set • 2x + y = 14them to be equal.

Step 1. Solve each equation for y.

y = 3x - 1

$$2x + y = 14 \\
-2x - 2x$$

Step 2. Set the x parts equal to each other. y = -2x + 14

$$\frac{-2x}{x}$$

Step 3. Solve for x.

Example. Solve by substitution.

You Try It.

- Solve by substitution.
- y = 2x + 5
- 3y + 9 = 6x 9