

## Practice for 4.2 Two-Variable Linear Systems of Equations

The following problems will help you practice the material you learned today. Once you are finished check your solutions. Once done, you can work on your WeBWork homework.

1. Solve by elimination

$$2x + 3y = 18$$

$$5x - y = 11$$

2. Solve by elimination

$$\frac{4}{5}x + \frac{3}{5}y = \frac{3}{5}$$

$$\frac{3}{8}x + \frac{11}{8}y = \frac{23}{8}$$

3. 
$$\frac{2}{3}x + \frac{1}{6}y = \frac{2}{3}$$
$$4x + y = 4$$

4. 
$$2x - 3y = 8$$
$$-6x + 9y = 10$$

5. Set up and solve (from lecture)

A total of \$32,000 is invested in two municipal bonds that pay 5.75% and 6.25% simple interest. The investor wants an annual interest income of \$1900 from the investments. What amount should be invested in the 5.75% bond?

6. Set up and solve:

Two sandwiches and a drink cost \$4.80. Three sandwiches and three drinks cost \$9.90. How much is a sandwich and how much is a drink?