Section 9.1: Systems of Equations

Video 1

$$3x + 4y = 5$$
$$x - 5y = 27$$

$$y = 3x - 4$$
$$6x - 2y = 5$$

$$5x - 4y = 20$$
$$3x + 2y = 34$$

$$3x + 4y = 21$$
$$5x - 6y = -41$$

$$8x + 10y = 34$$
$$12x + 15y = 51$$

6) A youth baseball manager bought 4 baseball bats and 12 baseball gloves for \$580.

The manager bought 3 more bats and 5 more gloves for \$275.

How much does each bat and glove cost?

7) The average salary of a college's president and vice-president is \$240,000.The president's salary is \$30,000 more than twice the vice-president's salary.Find each salary.

$$3x + 4y - 2z = 14$$
$$3x + 2y + 3z = -12$$
$$x - y + z = -9$$

$$4x + y - 2z = 24$$
$$3x - 2y + z = 20$$

Find the equation of a line that passes through (5,44), (2,14), and (-3,4).

The following table shows how many units of protein, fat, and fiber there are in 1 unit of corn, soybean, and cottonseed meal.

	Corn	Soybean	Cottonseed
Protein	0.25	0.4	0.2
Fat	0.4	0.2	0.3
Fiber	0.3	0.2	0.1

How many units of each of the 3 feeds will produce 35 units of protein, 38 units of fat, and 28 units of fiber?