Section 3.2

A matrix is

$$x_1 - 5x_2 + 2x_3 = 10$$
$$x_2 - 7x_3 = 5$$

$$x_1 - 2x_2 + 5x_3 - 3x_4 = 7$$
$$x_2 - 3x_3 + 2x_4 = 3$$
$$x_4 = -4$$

$$3x_1 + x_2 - 3x_3 = 6$$
$$2x_1 + 7x_2 + x_3 = -9$$
$$2x_1 + 5x_2 = -5$$

$$3x_1 - 6x_2 + x_3 + 13x_4 = 15$$
$$3x_1 - 6x_2 + 3x_3 + 21x_4 = 21$$
$$2x_1 - 4x_2 + 5x_3 + 26x_4 = 23$$

$3x + 2y = 11$
$6x + ky = 21$

$3x + 2y = 1$
$7x + 5y = k$