Solve the following equations:

1. $-16f = 22 - 5f$

$$+5f \qquad +5f$$
$$-11f = 22$$
$$\frac{}{-11} \quad \frac{}{-11}$$
$$\boxed{f = -2}$$

2. $12 + 5x = 2x - 9$

$$-12 \qquad\qquad -12$$
$$5x = 2x - 21$$
$$-2x \quad -2x$$
$$\frac{3x}{3} = \frac{-21}{3}$$
$$\boxed{x = -7}$$

3. $6 + 4y = y + 3$

$$-6 \qquad\qquad -6$$
$$4y = y - 3$$
$$-y \quad -y$$
$$\frac{3y}{3} = \frac{-3}{3}$$
$$\boxed{y = -1}$$

4. 2 – 14m = 5(-3m +2)

$$2 - 14m = -15m + 10$$
$$-2 \qquad\qquad -2$$
$$-14m = -15m + 8$$
$$+15m \quad +15m$$
$$\boxed{m = 8}$$

5. 5(1 + 5k) = 2(5 + 10k)

$$5 + 25k = 10 + 20k$$
$$-5 \qquad\quad -5$$
$$25k = 5 + 20k$$
$$-20k \qquad -20k$$
$$\frac{5k}{5} = \frac{5}{5}$$
$$\boxed{k = 1}$$

6. 3 – 6(x – 5) = 5x

$$3 - 6x + 30 = 5x$$
$$33 - 6x = 5x$$
$$+6x \quad +6x$$
$$\frac{33}{11} = \frac{11x}{11}$$
$$\boxed{x = 3}$$