Multi-Step Equations

Solve each equation.

1)
$$-20 = -4x - 6x$$

3)
$$8x - 2 = -9 + 7x$$

5)
$$4m - 4 = 4m$$

7)
$$5p - 14 = 8p + 4$$

9)
$$-8 = -(x+4)$$

11)
$$14 = -(p-8)$$

13)
$$-18 - 6k = 6(1 + 3k)$$

15)
$$2(4x-3)-8=4+2x$$

17)
$$-(1+7x)-6(-7-x)=36$$

19)
$$24a - 22 = -4(1 - 6a)$$

2)
$$6 = 1 - 2n + 5$$

4)
$$a + 5 = -5a + 5$$

6)
$$p-1=5p+3p-8$$

8)
$$p-4=-9+p$$

10)
$$12 = -4(-6x - 3)$$

12)
$$-(7-4x)=9$$

14)
$$5n + 34 = -2(1 - 7n)$$

16)
$$3n - 5 = -8(6 + 5n)$$

18)
$$-3(4x + 3) + 4(6x + 1) = 43$$

20)
$$-5(1-5x)+5(-8x-2)=-4x-8x$$

Multi-Step Equations

Solve each equation.

1)
$$-20 = -4x - 6x$$
 {2}

3)
$$8x - 2 = -9 + 7x$$
 $\{-7\}$

5)
$$4m - 4 = 4m$$

No solution.

7)
$$5p - 14 = 8p + 4$$
 $\{-6\}$

9)
$$-8 = -(x+4)$$

{4}

11)
$$14 = -(p - 8)$$
 {-6}

13)
$$-18 - 6k = 6(1 + 3k)$$
 {-1}

15)
$$2(4x-3)-8=4+2x$$
 {3}

17)
$$-(1+7x)-6(-7-x)=36$$

19)
$$24a - 22 = -4(1 - 6a)$$

No solution.

2)
$$6 = 1 - 2n + 5$$
 {0}

4)
$$a + 5 = -5a + 5$$
 {0}

6)
$$p-1=5p+3p-8$$
 {1}

8)
$$p - 4 = -9 + p$$

No solution.

10)
$$12 = -4(-6x - 3)$$
 {0}

12)
$$-(7 - 4x) = 9$$

14)
$$5n + 34 = -2(1 - 7n)$$
 {4}

16)
$$3n - 5 = -8(6 + 5n)$$
 $\{-1\}$

18)
$$-3(4x+3) + 4(6x+1) = 43$$

20)
$$-5(1-5x) + 5(-8x-2) = -4x - 8x$$

 $\{-5\}$