Warm-up 9-20

Solve the following equations.
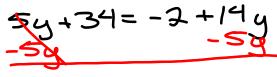
1. $-1 = \dfrac{5 + x}{14}$

2. $-8 = -(x + 7)$

3. $5y + 34 = -2(1 - 7y)$

Warm-up 9-20

Solve the following equations.

1. $14(-1) = \frac{5 + x}{14} (14)$

$-14 = 5 + x$
$-5 \quad -5$
$-19 = x$　　$\boxed{x = -19}$

2. $-8 = -(x + 7)$

$-8 = -x - 7$
$+7 \qquad\quad +7$
$-1 = -x$
$\overline{-1} \quad \overline{-1}$
$1 = x$　　$\boxed{x = 1}$

3. $5y + 34 = -2(1 - 7y)$

$5y + 34 = -2 + 14y$
$-5y \qquad\qquad -5y$

$34 = -2 + 9y$
$+2 \quad +2$

$36 = 9y$
$\overline{9} \quad \overline{9}$　　$\boxed{y = 4}$

Warm-up 9-20

Solve the following equations.

1. $(M) -1 = \dfrac{5 + x}{14} (M)$

$-14 = 5 + x$

$\underline{-5 \quad -5}$

$-19 = x \qquad \boxed{x = -19}$

2. $-8 = -1(x + 7)$

$-8 = -1x - 7$

$\underline{+7 \qquad\qquad +7}$

$-1 = -1x$

$\overline{-1} \qquad \overline{-1}$

$1 = x \qquad \boxed{x = 1}$

3. $5y + 34 = -2(1 - 7y)$

$5y + 34 = -2 + 14y$

$\underline{-14y \qquad\qquad -14y}$

$-9y + 34 = -2$

$\underline{-34 \qquad -34}$

$\dfrac{-9y}{-9} = \dfrac{-36}{-9}$

$\boxed{y = 4}$

Two-Step Equations

Date_____ Period____

Solve each equation.

1) $6 = \dfrac{a}{4} + 2$

{16}

2) $-6 + \dfrac{x}{4} = -5$

{4}

3) $9x - 7 = -7$

{0}

4) $0 = 4 + \dfrac{n}{5}$

{−20}

5) $-4 = \dfrac{r}{20} - 5$

{20}

6) $-1 = \dfrac{5 + x}{6}$

{−11}

7) $\dfrac{v + 9}{3} = 8$

8) $2(n + 5) = -2$

{−6}

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

{4}

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

{0}

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

{−6}

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

{4}

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

{−1}

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

{4}

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

{3}

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

{−1}