Solving Equations

Name _____

Section _____

① $3p + 2 = 29$

② $\frac{n}{2} - 5 = 3$

③ $\frac{n-5}{2} = 5$

④ $-12r + 4 = 100$

(5) $7(x+3) = 49$

(6) $2x + 7x - 3 = 51$

(7) $4x + 3 = 9x - 7$

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

Solving Equations

Name Key

Section

① $3p + 2 = 29$

$-2 \quad -2$

$\frac{3p}{3} = \frac{27}{3}$

$p = 9$

② $\frac{n}{2} - 5 = 3$

$+5 \quad +5$

$2 \cdot \frac{n}{2} = 8 \cdot 2$

$n = 16$

③ $2 \cdot \frac{n-5}{2} = 5 \cdot 2$

$n - 5 = 10$

$+5 \quad +5$

$n = 15$

④ $-12r + 4 = 100$

$-4 \quad -4$

$\frac{-12r}{-12} = \frac{96}{-12}$

$r = -8$

(5) $7(x+3) = 49$

$7x + 21 = 49$

$-21 \quad -21$

$\frac{7x}{7} = \frac{28}{7}$

$x = 4$

(6) $2x + 7x - 3 = 51$

$9x - 3 = 51$

$+3 \quad +3$

$\frac{9x}{9} = \frac{54}{9}$

$x = 6$

(7) $4x + 3 = 9x - 7$

$-4x \quad -4x$

$3 = 5x + 7$

$+7 \quad +7$

$\frac{10}{5} = \frac{5x}{5}$

$2 = x$

(8) $-2 = -1(n-8)$

$-2 = -n + 8$

$-8 \quad -8$

$\frac{-10}{-1} = \frac{+1n}{-1}$

$10 = n$