

HW49: Solving Literal Equations

Solve each equation for the indicated variable. Show all work!

1) $g = 2 - 4a$, for a

$$\frac{g-2}{-4} = \frac{-4a}{-4}$$

$$\boxed{\frac{g-2}{-4} = a}$$

3) $u = 4a - 1$, for a

$$\frac{u+1}{4} = \frac{4a}{4}$$

$$\boxed{\frac{u+1}{4} = a}$$

5) $z = 3a - 3$, for a

$$\frac{z+3}{3} = \frac{3a}{3}$$

$$\boxed{\frac{z+3}{3} = a}$$

7) $u = -2x + 3$, for x

$$\frac{u-3}{-2} = \frac{-2x}{-2}$$

$$\boxed{\frac{u-3}{-2} = x}$$

9) $g = 2 + 3x$, for x

$$\frac{g-2}{3} = \frac{3x}{3}$$

$$\boxed{\frac{g-2}{3} = x}$$

2) $g = -2 - 4a$, for a

$$\frac{g+2}{-4} = \frac{-4a}{-4}$$

$$\boxed{\frac{g+2}{-4} = a}$$

4) $u = -3a + 3$, for a

$$\frac{u-3}{-3} = \frac{-3a}{-3}$$

$$\boxed{\frac{u-3}{-3} = a}$$

6) $g = 1 + 2x$, for x

$$\frac{g-1}{2} = \frac{2x}{2}$$

$$\boxed{\frac{g-1}{2} = x}$$

8) $g = -\frac{3x}{4}$, for x

$$\frac{4g}{-3} = \frac{-3x}{-3}$$

$$\boxed{\frac{4g}{-3} = x}$$

$$\frac{4g}{-3} = x$$

10) $z = -4x + 1$, for x

$$\frac{z-1}{-4} = \frac{-4x}{-4}$$

$$\boxed{\frac{z-1}{-4} = x}$$