

Algebra 2

Name _____

Solving Literal Equations

Solve each equation for the indicated variable.

1) $u = y - kx$, for x

$$\frac{u - y}{-k} = \frac{\cancel{k}x}{\cancel{-k}}$$

2) $x + \cancel{k} = r + d - \cancel{c}$, for x

$$x = r + d - c$$

3) $a - c = r + d$, for a

4) $\cancel{c} = (d - r)x$, for x

$$\frac{c}{d - r} = \frac{(d - r)x}{(d - r)}$$

$$x = \frac{c}{d - r}$$

5) $a + m = n - p$, for a

$$6) \frac{k}{a} = \frac{v \cdot a}{w}, \text{ for } a$$

$$w \cdot k = \frac{v \cdot a \cdot w}{w}$$

$$\frac{wk}{v} = \frac{va}{1}$$

$$a = \frac{wk}{v}$$

$$w \cdot k = \frac{va \cdot w}{w}$$

$$\sqrt{wk} = \frac{\sqrt{va}}{\sqrt{1}}$$

7) $a - c = r - d$, for a

8) $\frac{x}{c} = d + r$, for x

$$x = \frac{d + r}{c}$$

9) $k - a = v - w$, for a

10) $u = k + x + y$, for x

11) $ca = r - d$, for a

12) $mx = np$, for x

13) $g = y - cx$, for x

14) $k - a = w + v$, for a

15) $u = xk + y$, for x

16) $g = cab$, for a

Algebra 2

Name _____

Solving Literal Equations

Solve each equation for the indicated variable.

1) $u = y - kx$, for x

$$x = \frac{-u + y}{k}$$

2) $x + c = r + d$, for x

$$x = -c + r + d$$

3) $a - c = r + d$, for a

$$a = c + r + d$$

4) $\frac{c}{x} = d - r$, for x

$$x = -\frac{c}{-d + r}$$

5) $a + m = n - p$, for a

$$a = -m + n - p$$

6) $\frac{k}{a} = \frac{v}{w}$, for a

$$a = \frac{kw}{v}$$

7) $a - c = r - d$, for a

$$a = c + r - d$$

8) $xc = d + r$, for x

$$x = \frac{d + r}{c}$$

9) $k - a = v - w$, for a

$$a = k - v + w$$

10) $u = k + x + y$, for x

$$x = u - k - y$$

11) $ca = r - d$, for a

$$a = \frac{r - d}{c}$$

12) $mx = np$, for x

$$x = \frac{np}{m}$$

13) $g = y - cx$, for x

$$x = \frac{-g + y}{c}$$

14) $k - a = w + v$, for a

$$a = k - w - v$$

15) $u = xk + y$, for x

$$x = \frac{u - y}{k}$$

16) $g = cab$, for a

$$a = \frac{g}{cb}$$