Solve Literal Equations
for a Specified Variable

1. $2xy + 5y = 7$, for y

2. $12x - 4y = 20$, for y

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3. $A = P + Prt$, for r

4. $\dfrac{(k - 2)}{5} = 11y$, for k

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5. $A = \pi r^2$, for r

6. $R = 5bd - 6ba$, for b

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7. $\dfrac{1}{a} + \dfrac{1}{b} = \dfrac{1}{c}$, for a

8. $15 = 3n + 6P$, for n

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9. $P = 2w + 2L$, for L

10. $SA = B + \dfrac{1}{2}Pl$, for P

Solve Literal Equations
for a Specified Variable

Answers

1 $2xy + 5y = 7$, for y

$$y = \frac{7}{2x + 5}$$

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3 $A = P + Prt$, for r

$$r = \frac{A - P}{Pt}$$

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5 $A = \pi r^2$, for r

$$r = \sqrt{\frac{A}{\pi}}$$

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7 $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$, for a

$$a = \frac{bc}{b - c}$$

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9 $P = 2w + 2L$, for L

$$L = \frac{P}{2} - w$$

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2 $12x - 4y = 20$, for y

$$y = 3x - 5$$

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4 $\frac{(k - 2)}{5} = 11y$, for k

$$k = 55y + 2$$

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6 $R = 5bd - 6ba$, for b

$$b = \frac{R}{5d - 6a}$$

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8 $15 = 3n + 6P$, for n

$$n = 5 - 2P$$

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10 $SA = B + \frac{1}{2}Pl$, for P

$$P = \frac{2SA - 2B}{l}$$