

Solving for a Variable Homework

1) Solve $C = 2\pi r$ for r .

2) Solve $x + 3x - 5 = y - 3$ for y

3) $x - 6y = 8$ for x

4) $4x + 8 = 2y$ for x

5) $2x + 10y = 5$ for x

6) $-10 = 20y + 10x$ for y

7) $\frac{y+2}{5} = 3x$ for y

8) $\frac{y}{5} + 2 = 3x$ for y

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Answer each of the following.

9) The formula $c = 5p + 215$ relates c , the total cost in dollars of hosting a birthday party at a skating rink, to p , the number of people attending.

a. Solve the formula $c = 5p + 215$ for p .

b. If Allie's parents are willing to spend \$300 for a party, how many people can attend?

10) The formula for the area of a triangle is $A = \frac{1}{2}bh$, where b represents the length of the base and h represents the height.

a. Solve the formula $A = \frac{1}{2}bh$ for b .

b. If a triangle has an area of 192 mm^2 , and the height measures 12 mm, what is the measure of the base?

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