Solving for a Variable Homework

1) Solve $C= 2πr$ 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 = bh,
where b represents the length of the base and h
represents the height.

 a. Solve the formula A = bh for b.

 b. If a triangle has an area of 192 mm2, and the
height measures 12 mm, what is the measure
of the base?

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