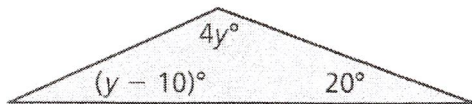


1. Find each angle measure in the figure.



The angle measures are  $20^\circ$ ,  $\square^\circ$ , and  $\square^\circ$ .

Use the equation to justify your answer.

$$20 + (y - 10) + 4y = \square$$

$$y = \square$$

2. Solve the equation.

$$10x + 2 = 32$$

$$x = \square$$

3. Solve the equation.

$$19 - 4c = 17$$

$$c = \square$$

4. Solve the equation.

$$5x + 2x + 4 = 18$$

$$x = \square$$

5. Solve the equation.

$$2 = -9n + 22 - n$$

$$n = \square$$

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6. Solve the equation.

$$1.1x + 1.2x - 5.4 = -10$$

$$x = \square$$

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7. Solve the equation.

$$\frac{2}{3}h - \frac{1}{3}h + 11 = 8$$

$$h = \square$$

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8. Solve the equation.

$$6(5 - 8v) + 12 = -54$$

$$v = \square$$

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9. Solve the equation.

$$21(2 - x) + 12x = 44$$

$$x = \square$$

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10. Solve the equation.

$$8.5 = 6.5(2d - 3) + d$$

$$d = \square$$

11. Solve the equation.

$$-\frac{1}{4}(x + 2) + 5 = -x$$

$$x = \square$$

12. **YOU BE THE TEACHER** Your friend solves the equation. Is your friend correct?

$$-2(7 - y) + 4 = -4$$

$$-14 - 2y + 4 = -4$$

$$-10 - 2y = -4$$

$$-2y = 6$$

$$y = -3$$

yes

no

Explain your reasoning.

13. **YOU BE THE TEACHER** Your friend solves the equation. Is your friend correct? Solve the equation.

$$\begin{aligned} 3(y - 1) + 8 &= 11 \\ 3y - 3 + 8 &= 11 \\ 3y + 5 &= 11 \\ 3y &= 6 \\ y &= 2 \end{aligned}$$

- yes
- no

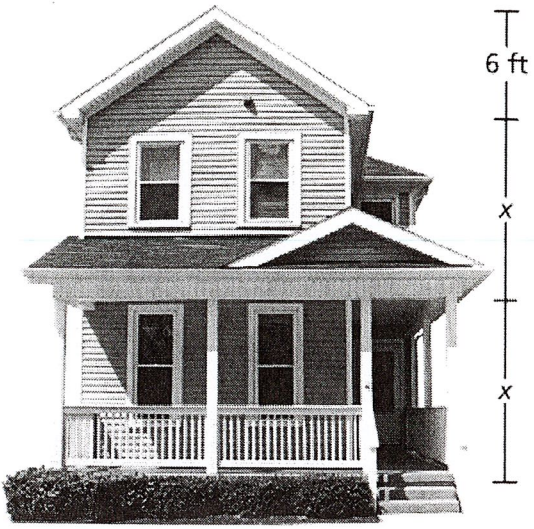
Explain your reasoning.

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14. **STRUCTURE** The cost  $C$  (in dollars) of making  $n$  watches is represented by  $C = 15n + 85$ . How many watches are made when the cost is \$385?

watches

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15. **MODELING REAL LIFE** The height of the house is 26 feet. What is the height  $x$  of each story?



The height  $x$  of each story is  feet.

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16. **MODELING REAL LIFE** After the addition of an acid, a solution has a volume of 90 milliliters. The volume of the solution is 3 milliliters greater than 3 times the volume of the solution before the acid was added. What was the original volume of the solution?

The original volume was  milliliters.

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