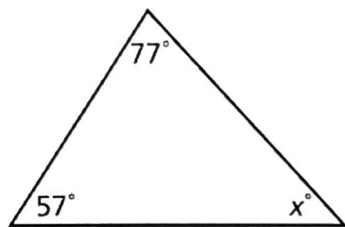


Name: _____

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|---|--|--|---|
| <p>Example #1, solve</p> <p>$2(x - 3) = -8$</p> <p>$\cancel{2x} - \cancel{6} = -8$</p> <p>$ + 6 + 6$</p> <p>$\cancel{2x} = -\frac{2}{2}$</p> <p>$x = -1$</p> | <p>Example #2, solve</p> <p>$\frac{3}{4}x + 10 = 1$</p> <p>$\cancel{\frac{3}{4}x} - \cancel{10} = -10$</p> <p>$\cancel{\frac{3}{4}} \cdot \cancel{\frac{4}{3}} x = -9 \cdot \frac{4}{3}$</p> <p>$x = -9 \cdot \frac{4}{3} = -12$</p> | <p>Example #3, solve</p> <p>$2x - 3x = 5$</p> <p>$\cancel{2x} = \frac{5}{-1}$</p> <p>$x = -5$</p> | <p>Example #4, solve</p> <p>$3(x + 4) = 12 + 3x$</p> <p>$\cancel{3x} + 12 = 12 + \cancel{3x}$</p> <p>$12 = 12$</p> <p>all numbers "identity"</p> |
| <p>1. Solve the equation. Show your steps.</p> <p>$24 = -2x$</p> | <p>2. Solve the equation. Show your steps.</p> <p>$1.2x - 0.7x = 4.8$</p> | | |
| <p>3. Solve the equation. Show your steps.</p> <p>$3a - 5 = 16$</p> | <p>4. Solve the equation. Show your steps.</p> <p>$2b + 6 + b = 4b - 9$</p> | | |
| <p>5. Solve the equation. Show your steps.</p> <p>$5c - 8c + 2 = 3(4 - c)$</p> | <p>6. Solve the equation. Show your steps.</p> <p>$\frac{1}{2}d + 8 = 10$</p> | | |

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|---|---|---|---|
| Example #5, solve <u>for y</u> | Example #6, solve <u>for y</u> | Example #7, solve <u>for a</u> | Example #8, solve <u>for b</u> |
| $2y - 1 = x$ $+1 \quad +1$ $\frac{2y}{2} = \frac{x+1}{2}$ $y = \frac{x+1}{2}$ | $4y + 3 - 2y = 5x$ $2y + 3 = 5x$ $-3 \quad -3$ $2y = 5x - 3$ $\frac{2y}{2} = \frac{5x - 3}{2}$ $y = \frac{5x - 3}{2}$ | $ab + c = d$ $-c \quad -c$ $\frac{ab}{b} = \frac{d - c}{b}$ $a = \frac{d - c}{b}$ | $a + \frac{1}{3}b = c$ $-a \quad -a$ $\frac{1}{3}b = c - a$ $3 \cdot \frac{1}{3}b = 3(c - a)$ $b = 3(c - a)$ $\text{or } 3c - 3a$ |
| 15. Solve the equation <u>for y</u> . Show your steps. | 16. Solve the equation <u>for y</u> . Show your steps. | | |
| $y - 7 + 2y = 4x$ | $6x - y = x$ | | |
| 17. Solve the equation <u>for y</u> . Show your steps. | 18. Solve the equation <u>for m</u> . Show your steps. | | |
| $xy = z$ | $m - n = p$ | | |
| 19. Solve the equation <u>for c</u> . Show your steps. | 20. Solve the equation <u>for d</u> . Show your steps. | | |
| $\frac{c}{de} = f$ | $cd + e = f$ | | |

23. Write an equation to find the value of x .



Equation: _____

Solve your equation to find the value of x .

$x =$ _____

24. The cost C (in dollars) of renting a car for d days is represented by the equation
 $C = 50d + 120$
How many days was the car rented if the cost was \$370?

Equation: _____

Solve your equation to find the value of d .

$d =$ _____

25. Solve the equation. Show your steps.

$$-3 - 2x = -5$$

26. Solve the equation. Show your steps.

$$2(x + 3) = 3(x - 1)$$

27. Solve the equation. Show your steps.

$$-0.1x + 2.1 = 5.3$$

28. Solve the equation for y . Show your steps.

$$\frac{1}{2}y = x + 9$$