

Continue solving for the given variable:

$$19. \frac{6}{7} \times \frac{2}{n}$$

$$6n = 14$$

$$n = \frac{14}{6} \text{ or } \frac{7}{3}$$

$$20. \frac{a}{10} = 9 \cdot 10$$

OR

$$\frac{a}{10} = 90$$

$$a = 90$$

Solve each inequality and graph its solution:

$$21. r - 6 \geq -16$$

$$\frac{+6}{+6} \frac{+6}{+6}$$

$$r \geq -10$$

$$[-10, \infty)$$

$$22. x + 7 \geq 4$$

$$\frac{-7}{-7} \frac{-7}{-7}$$

$$x \geq -3$$

$$[-3, \infty)$$

$$23. \frac{v}{7} > -10 \cdot 7$$

$$v > -70$$

$$(-70, \infty)$$

$$24. 4 - 2x < 8$$

$$\frac{-4}{-2} \frac{-4}{-2}$$

$$-2x < 4$$

$$x > -2$$

$$(-2, \infty)$$

Rewrite each equation in terms of the indicated variable (letter):

$$25. P = IRT \text{ for } (T)$$

$$\frac{P}{IR} = T$$

$$26. P = 2(L + W) \text{ for } (W)$$

$$P = 2L + 2W$$

$$-2L -2L$$

$$P - 2L = 2W$$

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

same answer

$$27. y = 5x - 6 \text{ for } (x)$$

$$\frac{+6}{5} \frac{+6}{5}$$

$$\frac{y+6}{5} = \frac{5x}{5} \Rightarrow \frac{y+6}{5} = x$$

$$28. 2x - 3y = 8 \text{ for } (y)$$

$$\frac{-2x}{-3} \frac{-2x}{-3}$$

$$-3y = 8 - 2x$$

$$y = \frac{8 - 2x}{-3}$$

$$29. V = LWH \text{ for } (L)$$

$$\frac{V}{WH} = L$$

$$30. A = \frac{1}{2}h(b+3) \text{ for } (b)$$

$$2A = \frac{h}{h}(b+3)$$

$$\frac{2A}{h} = b+3$$

$$\frac{2A}{h} - 3 = b$$

DO NOT distribute b/c it gets ugly!