

1. a. Solve $5x + 9 = 2 + 7(x - 3)$. As you do so, please explain each step as you would to a high school student who is struggling with equation solving.

Distribute

$$5x + 9 = 2 + 7(x - 3)$$

Arrows

$$5x + 9 = 2 + 7x - 21$$

$-5x$

same thing to both sides

x-terms

$$9 = 2 + 2x - 21$$

same thing to both sides

constants

$$9 = 2x - 19$$

$+ 19$ $+ 19$

same thing to both sides

coefficient

$$\frac{5x}{5} = \frac{2x + 28}{5} \Rightarrow \frac{2x}{2} = \frac{14}{1}$$

$$x = 14$$

x on LHS

Figure 3.

Algebraic Thinking

O García



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