

Lesson 6-6 → Multiple Solutions When Combining Like Terms

Hint! Simplify! Simplify! Simplify!

Select ALL of the below equivalent to:

$$8x + (3 + 2x) - x$$

(a)
 $9x + 3$

(b)
 $3(3x + 1)$

(c)
 $x + (3 + 8x)$

We have to SIMPLIFY all of them!

-DPROMPT

$$8x + (3 + 2x) - x$$

$$\underline{\underline{8x}} + \underline{\underline{3}} + \underline{\underline{2x}} - \underline{\underline{x}}$$

$$8x + 2x - x + 3 \Rightarrow 9x + 3$$

(a) $9x + 3 \Rightarrow$ YES!

(b) $3(3x + 1) \Rightarrow 9x + 3 \Rightarrow$ Yes!

(c) $x + (3 + 8x)$

$$\underline{\underline{x}} + \underline{\underline{3}} + \underline{\underline{8x}}$$

$$9x + 3 \Rightarrow$$

$$x + 8x + 3$$

$$9x + 3 \Rightarrow$$
 Yes!