

Find the error:

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

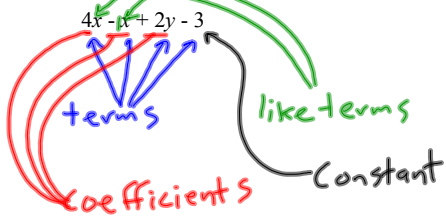
$3x+6$

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4-2 Simplifying Expressions

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Ex. 1 Identify the terms, like terms, coefficients, and constants in the expression.



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Ex. 2 Simplify the expression.

$$3 \text{ dollars} + 5 \text{ books} + 8 \text{ dollars} - 2 \text{ books}$$

$$11 \text{ dollars} + 3 \text{ books}$$

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Ex. 3 Simplify the expression.

$$3x + 5y + 8x - 2y$$

$11x + 3y$

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Ex. 4 Simplify each expression.

$$8n + 4 + 4n$$

$$12n + 4$$

$$6x + 4 - 5x - 7$$

$$1x - 3$$

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Ex. 5 Simplify the expression.

$$1y - 2(x - 3y)$$

$$\underline{1y - 2x + 6y}$$

$$7y - 2x \qquad -2x + 7y$$

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Ex. 6 You and a friend worked in the school store.
You worked four hours more than your friend.

Write an expression in simplest form that represents the total number of hours you both worked.

x = # of hours your friend worked
 $x + 4$ = # of hours you worked

$$\text{Total} = \underline{x} + \boxed{x + 4} = \boxed{2x + 4}$$

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Ex. 7 Simplify: $3(2x + 5) + 4(7x - 1)$

$$\underline{6x + 15 + 28x - 4}$$

$$\boxed{34x + 11}$$

$$2(3x - 2) + 5(4x + 8)$$

$$\underline{6x - 4 + 20x + 40} = \boxed{26x + 36}$$

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Ex. 8 Simplify:

$$\underline{4xy + 7x^2 + 3y + 5x^2 + 8y + xy}$$

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Homework

p.181
#19-41 odds

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