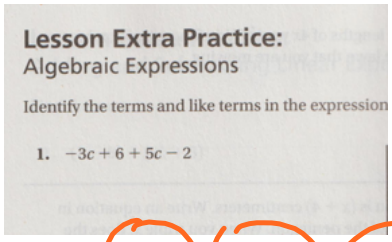
Lesson Extra Practice:
Algebraic Expressions

Identify the terms and like terms in the expression

1. $-3c + 6 + 5c - 2$

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$(-3c + 5c) + (+6 - 2)$

$2c + 4$

$2c + 4$

$(+)(+) = +$

$(-)(-) = +$

$(+)(-) = -$

$(-)(+) = -$

Combine Terms:

$(+Big) + (-Small) = +$

$(-Big) + (+Small) = -$

$(+Big) - (-Small) = +$

$(-Big) - (-Small) = -$

2. $4n^2 - 2.3n + 2n^2 - 5.6$

$2.\ 4n^2 - 2.3n + 2n^2 - 5.6$

$6n^2 - 2.3n - 5.6$

3. $\frac{1}{5}x^3 - x^3 + 2x$

$2.\ \frac{1}{5}x^3 - 1x^3 + 2x$

$\left(\frac{1}{5}x^3 - \frac{5}{5}x^3\right) + 2x$

$-\frac{4}{5}x^3 + 2x$

$\frac{1}{5} + 2$

$\frac{1}{5} + \frac{10}{5}$

$\frac{2}{3} + 3$

$\frac{2}{3} + \frac{9}{3}$

Aug 12-8:19 AM

4. $-2.5 + s + 6.4s - 4s^2$

4. $-2.5 + 1s + 6.4s - 4s^2$

$-2.5 + 7.4s - 4s^2$

$$\begin{array}{r} 6.4 \\ +\ 1.0 \\ \hline 7.4 \end{array}$$

Aug 12-8:19 AM

Simplify the expression. Then evaluate the expression when $x = 3$.

5. $-7x + 12x$

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$5x$

$5(3)$

15

$x = 3$

$-7(3) + 12(3)$

$-21 + 36$

15

Simplify the expression. Then evaluate the expression when $x = 3$.

6. $6x - 4 + 6 - 2x$

b) $6x - 4 + 6 - 2x$ $\quad x = 3$

$6(3) - 4 + 6 - 2(3)$

$18 - 4 + 6 - 6$

14

$4x + 2$

$4(3) + 2$

$12 + 2$

14

Simplify the expression. Then evaluate the expression when $x = 3$.

7. $3x^2 + 5x - x^2$

7. $3x^2 + 5x - 1x^2$

$3(3)^2 + 5(3) - 1(3)^2$

$3(9) + 15 - 9$

$27 + 15 - 9$

33

$x = 3$

$2x^2 + 5x$

$2(3)^2 + 5(3)$

$18 + 15$

33

Simplify the expression. Then evaluate the expression when $x = 3$.

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

8. $x^2 - 3 + 1(1x^2 - x)$

$x = 3$

$1x^2 - 3 + 1x^2 - 1x$

$2x^2 - 3 - 1x$

$2(3)^2 - 3 - 1(3)$

$18 - 3 - 3$

12

Simplify the expression. Then evaluate the expression when $x = 3$.

9. $3 - 2(4 + x) - 7$

9. $3 - 2(4 + x) - 7$ $\quad x = 3$

$3 - 2(4 + (3)) - 7$

$3 - 8 - 6 - 7$

$3 - 14 - 7$

$-11 - 7$

-18

Simplify the expression. Then evaluate the expression when $x = 3$.

10. $\frac{2}{3}x - \frac{1}{2} + 2x - x^2$

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Simplify the expression. Then evaluate the expression when $x = 3$.

11. $6x^2 - 4 + 2(x^2 - 3)$

Aug 12-8:23 AM

Simplify the expression. Then evaluate the expression when $x = 3$.

12. $3(x^2 + 4) - 4x + 6$

Aug 12-8:23 AM