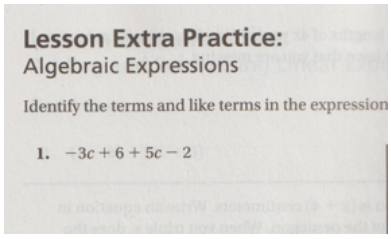

Lesson Extra Practice:
Algebraic Expressions

Identify the terms and like terms in the expression

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

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

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

$2c + 4$

$2c + 4$

1C

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

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

$(4n^2 + 2n^2) + (-2.3n) + (-5.6)$

$6n^2 - 2.3n - 5.6$

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

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

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

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

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

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

$\frac{1}{5}x^3 - \frac{10}{5}x^3$

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

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

$-2.5 + (+s + 6.4s) + (-4s^2)$

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

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

Aug 12-8:19 AM

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

5. $-7x + 12x$

5. $-7x + 12x$: $x = 3$

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

$-21 + 36$

15

$5x$

$5(3)$

15

Aug 12-8:20 AM

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

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

6. $6x - 4 + 6 - 2x$: $x = 3$

$18 - 4 + \cancel{6} - \cancel{6}$

14

$4x + 2$

$12 + 2$

14

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

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

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

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

$2x^2 + 5x$

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

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

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

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

$2x^2 - 3 - 1x$

$2x^2 - 1x^1 - 3x^0$

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

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

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

$3 - 8 - 2x - 7$

$-5 - 2x - 7$

$-12 - 2x$

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

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

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

$\frac{2}{3}(3) - \frac{1}{2} + 2(3) - (3)^2$

$2 - \frac{1}{2} + 6 - 9$

$-1 - \frac{1}{2}$

$\frac{-2}{2} - \frac{1}{2}$

$\frac{-3}{2}$

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

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

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

$6x^2 - 4 + 2x^2 - 3$

$8x^2 - 7$ $\quad x = 3$

$8(3)^2 - 7$

$8(9) - 7$

$72 - 7$

65

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

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

Aug 12-8:23 AM