

**Math 0406-Learning Outcome: Evaluating Polynomial Expressions**

**Practice Problems:**

**Let  $a = 3, b = -2, c = -1, d = 2$  to evaluate the following expressions**

1.  $a^2 - bc$

2.  $ab + cd$

3.  $(b - a)^2$

4.  $b^2 - 4ac$

5.  $\frac{ab + d}{bd - a}$

**Let  $x = -2, y = 3$  to evaluate the following:**

6.  $x^2y - 3x$

7.  $(x + y)^2$

8.  $2x - 4y^3$

**Let  $a = \frac{1}{2}, b = -\frac{2}{3}$  to evaluate the following:**

9.  $4a^2 + 3b$

10.  $12a^2b$

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**Solutions:**

1. 7
2. -8
3. 25
4. 16
5.  $\frac{4}{7}$
6. 18
7. 1
8. -112
9. -1
10. -2