

## Section 5.1 Extra Practice

1. For each expression

i) identify the number of terms

ii) identify the expression as a monomial, binomial, or trinomial

a)  $-2x^2$  i) \_\_\_\_\_ ii) \_\_\_\_\_

b)  $a + b^2 + s$  i) \_\_\_\_\_ ii) \_\_\_\_\_

c)  $y - 5$  i) \_\_\_\_\_ ii) \_\_\_\_\_

d)  $3d^2 - 5xy$  i) \_\_\_\_\_ ii) \_\_\_\_\_

e)  $r$  i) \_\_\_\_\_ ii) \_\_\_\_\_

f)  $b^2 - 2b + 7$  i) \_\_\_\_\_ ii) \_\_\_\_\_

2. Identify each polynomial below as a monomial, binomial, or trinomial. If it is none of these, identify it as a polynomial.

$c + d$                        $3y$                        $-7e^2 - 4f$                        $a^2 - 3n - 6a - 5n^2$

$x^2$                        $m^2 - n - 8$                        $a + 2b - 2c - 3d$                        $4z^2 - y^2 - 6$

Monomials

Binomials

Trinomials

Polynomials

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. For each expression

i) identify the number of terms

ii) state whether the expression is a monomial, binomial, or trinomial

a)  $6t$  i) \_\_\_\_\_ ii) \_\_\_\_\_

b)  $x^2 + 3y - 2$  i) \_\_\_\_\_ ii) \_\_\_\_\_

c)  $9 - r$  i) \_\_\_\_\_ ii) \_\_\_\_\_

d)  $a - 2b + 4ab$  i) \_\_\_\_\_ ii) \_\_\_\_\_

e)  $-cd$  i) \_\_\_\_\_ ii) \_\_\_\_\_

f)  $5s^2 - st$  i) \_\_\_\_\_ ii) \_\_\_\_\_

4. State the degree for each of the polynomials in #3.

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

d) \_\_\_\_\_






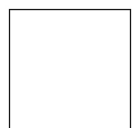
e) \_\_\_\_\_

f) \_\_\_\_\_

- 5.** For each polynomial  
**i)** state the degree  
**ii)** state the number of terms


- |                                   |          |           |
|-----------------------------------|----------|-----------|
| <b>a)</b> $f + g + h$             | i) _____ | ii) _____ |
| <b>b)</b> $m^2 - mn + n^2$        | i) _____ | ii) _____ |
| <b>c)</b> $x - y$                 | i) _____ | ii) _____ |
| <b>d)</b> $s^2$                   | i) _____ | ii) _____ |
| <b>e)</b> 31                      | i) _____ | ii) _____ |
| <b>f)</b> $5d^2 + dh - 11h^2 + 3$ | i) _____ | ii) _____ |

- 6.** Write the expression represented by each set of algebra tiles.

 = positive 1-tile	 = negative 1-tile
 = positive x-tile	 = negative x-tile
 = positive $x^2$	 = negative $x^2$

**a)**  \_\_\_\_\_

**b)**  \_\_\_\_\_

**c)**  \_\_\_\_\_

**d)**  \_\_\_\_\_

- 7.** For the polynomial  $3a^2 - 4ac - 8$  state the following.
- |  |   |
|--|---|
| <b>a)</b> Number of terms _____                | <b>b)</b> Coefficient of the first term _____ |
| <b>c)</b> Coefficient of the second term _____ | <b>d)</b> Number of variables _____           |
| <b>e)</b> Degree of polynomial _____           | <b>f)</b> Constant term _____                 |