Name: _____   Date: _____

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)** _____

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

   a) $f + g + h$ i) _____   ii) _____

   b) $m^2 - mn + n^2$ i) _____   ii) _____

   c) $x - y$ i) _____   ii) _____

   d) s^2 i) _____   ii) _____

   e) 31   i) _____   ii) _____

   f) $5d^2 + dh - 11h^2 + 3$ 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.
   a) Number of terms _____   **b)** Coefficient of the first term _____
   c) Coefficient of the second term _____   **d)** Number of variables _____
   e) Degree of polynomial _____   **f)** Constant term _____