Secondary Math 2   Name_____

1.1 Classifying Polynomials Classwork   Period____

With each polynomial list the type, the degree, how many terms, all coefficients, and all constants.

1) $-3k^5$ Type: monomial
   Type:
                    Degree: 5th
   Degree:
                    Terms:1
   Terms:
                    Coefficients:-3
   Coefficients:
                    Constants:0
   Constants:

2) $5n - 7$ Type: linear binomial
   Type:
                    Degree: 1
   Degree:
                    Terms: 2
   Terms:
                    Coefficients: 5
   Coefficients:
                    Constants: 7
   Constants:

3) $-7x^5 - 2x^4 + 4x^2 + 5$ Type: polynomial
   Type:
                    Degree:5th
   Degree:
                    Terms: 4
   Terms:
                    Coefficients: -7, -2, 4
   Coefficients:
                    Constants: 5
   Constants:

4) $7x^2$ Type: quadratic monomial
   Type:
                    Degree: 2
   Degree:
                    Terms: 1
   Terms:
                    Coefficients: 7
   Coefficients:
                    Constants: 0
   Constants:

5) -9 Type: constant monomial
   Type:
                    Degree: 0
   Degree:
                    Terms: 1
   Terms:
                    Coefficients: 0
   Coefficients:
                    Constants: -9
   Constants:

6) $-5x^4 + 10x^3$ Type: fourth degree binomial
   Type:
                    Degree: 4
   Degree:
                    Terms: 2
   Terms:
                    Coefficients: -5, 10
   Coefficients:
                    Constants: 0
   Constants:

Name each polynomial by degree and number of terms.

7) $-6m^3$

   cubic monomial

8) $9x$

   linear monomial

9) $-6x^3 - x^2$

   cubic binomial

10) $-5x^2 - 10x - 4$

   quadratic trinomial

11) $2n^3 - 3n + 3$

   cubic trinomial

12) -10

   constant monomial