7-1 Polynomials Introduction (Classifying and Evaluating) Name_____

Name each polynomial by degree and number of terms.

1) $2n - 10 - 3n^3$

2) $-4 + 4n^6$

3) $2a^2 - 10 - 5a$

4) $-8n^2$

5) $-3m^4$

6) $5x^3 + 9x^5 - 2x^6 + 9x^4 - 6x^2$

7) $-4x^6 + x^3 + 5x^2$

8) $-5x^4$

9) $1 - 8a$

10) 10

Evaluate each using the values given.

11) $c - (a + a)$; use $a = -5$, and $c = -6$

12) $q + p^2$; use $p = -4$, and $q = -5$

13) $r - (p + r)$; use $p = 4$, and $r = -5$

14) $a(c - b)$; use $a = 4$, $b = 3$, and $c = -5$

15) $b(-2 + a)$; use $a = 6$, and $b = -1$

16) $q + qr$; use $q = -4$, and $r = 6$

17) $q + m^2$; use $m = 4$, and $q = -2$

18) $m^2 - q$; use $m = -5$, and $q = 1$

19) $x + z^2$; use $x = 1$, and $z = -4$

20) pr^2; use $p = -4$, and $r = -2$