

**For each expression:**

- a) Find the product of the polynomials**
- b) Write the product in standard form**
- c) Classify the polynomial by degree and by number of terms**
- d) Describe the end behavior**

**1.**  $(x + 3)(x - 2)$

**2.**  $(x + 3)(x + 4)(x + 5)$

**3.**  $(x - 3)^2(x - 1)$

**4.**  $x(x + 2)^2$

**5.**  $x(x + 5)^2$

**6.**  $x(x - 1)(x + 1)$

**7)**  $(x + 3)^3$

**8)**  $(x + 1)(x - 2)(x + 3)$

**9)**  $x(x - 2)(x + 2)$

**10)**  $x^2(x + 1)(x + 6)$