

Honors Multiplication Practice II – USE A SEPARATE SHEET OF PAPER

PART 1 - Find each product. Write the answer in standard form. Classify each product by degree/number of terms.

Describe each end behavior.

1) ~~$x(2x)(4x + 1)$~~

2) $-5x^2(6x - 2)$

3) ~~$(x^2 + 1)^2$~~

4) $(x + 1)(x - 1)(x + 2)$

5) ~~$(-2a)(5)(a^2 - 1)$~~

6) $(s + t)(s - t)(s + t)(s - t)$

7) ~~$(x - 2)^2$~~

PART 2 – Use the binomial theorem to expand each polynomial.

1. $(x + 2)^4$

5. $(2x - 3)^4$ 3

2. ~~$(a + 2)^4$~~

6. ~~$(x - 1)^9$~~

3. $(x + y)^5$ 5

7. ~~$(2x^2 - 2y^2)^6$~~

4. $(d - 2)^9$ 3

8. ~~$(x^5 + 2y)^7$~~