**Honors Math 2**

**Polynomial Homework**

**Simplify by adding, subtracting or multiplying.**

1. (2x3 – 4x2+ 3) + (x3 – 3x2 + 1) 2. (3x2 + 2x3) – (3x2 +7x – 1)

3. (8y3 – y + 7) – (6y3 + 3y – 3) 4. (5n2 – 7) – (2n2 + n – 3)

5. (3y2 – 7y + 3) – (5y + 3 – 4y2) 6. (x2 + 4) – (x – 4) + (x2 – 2x)

7. 5(2n2 + n) 8. -6n2(4n2 – 9)

9. -2a2(9 – a – 4a2) 10. -3ab2(a3b2 – 2a2b)

11. 4x3y(-x2y + 2xy - 5xy2) 12. (4n + 1)(2n + 6)

13. (x – 3)(6x – 2) 14. (5n + 6)(5n – 5)

15. (2a – 1)(8a – 5) 16. (6n + 3)(6n – 4)

17. (4a + 2)(6a2 – a + 2) 18. (7r2 – 6r – 6)(2r – 4)

19. (7k – 3)(k2 – 2k + 7) 20. (m2 – 7m – 6)(7m2 – 3m – 7)