

Topic 5.2
Polynomials
Homework

Name: _____

Date: _____

Simplify the expression.

1. $(3x^2 - 2y^4) + (7x^4 + 10z^9)$

2. $(5x + 8y) - (3y - 6) + (8x + 6)$

3. $(2x^2 - 5x + 10) + (9x^2 + 12x - 14)$

4. $(x^2 - y^3 + z^4) - (x^3 - y^2 + z)$

Simplify using FOIL.

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

6. $(x - 4)(x - 3)$

7. $(x - 7)(x + 5)$

8. $(2x + 4)(x + 5)$

9. $(3x + 1)(2x - 2)$

10. $(4x - 5)(x + 5)$

11. $(9x - 1)(2x - 2)$

12. $(x - 8)(-2x + 3)$

13. $(-2x - 4)(-3x - 5)$