

Quiz Review
1.1 – 1.6

State the degree of the polynomial.

1. $5x^6 - 3x^4 + x^3 - 9x^2 + 1$

2. $12x^3 - 5x^4 - 6x^7 - 3x - 3$

3. $3x - 2x^3 + 4^4$

Perform the indicated operation. Write your answer in standard form and use the tabular method where appropriate.

4. $(3x^2 + 7 + x) + (14x^3 + 2 + x^2 + x)$

5. $(4r^2 + 3r - 1) - (3r^2 - 5r + 4)$

6. $(x - 7)(2x + 4)x$

7. $(x + 2)(x - 6)(x + 1)$

8. $(3x + 1)(3x - 1)(x - 6)$

9. $3x(5x - 5)$

10. $(6y^3 + 13y^2 - 10y - 24) \div (y + 2)$

11. $(x^2 + 3x - 5)(x^2 - x + 1)$

12. $(2h^4 - h^3 + h^2 + h - 3) \div (h^2 - 1)$

13. $(4a^4 + 2a^2 + 4a + 1) \div (2a + 1)$

Answers

1. 6

2. 7

3. 3

4. $14x^3 + 4x^2 + 2x + 9$

5. $r^2 + 8r - 5$

6. $2x^3 - 10x^2 - 28x$

7. $x^3 - 3x^2 - 16x - 12$

8. $9x^3 - 54x^2 - x + 6$

9. $15x^2 - 15x$

10. $6y^2 + y - 12$

11. $x^4 + 2x^3 - 7x^2 + 8x - 5$

12. $2h^2 - h + 3$

13. $2a^3 - 2a^2 + 2a + 1$