

Unit 3 Quiz Review

Completely factor the following

1. $16x^4 - 1$

2. $25x^2 - 9$

3. $x^3 + 8$

4. $27x^3 - y^3$

5. $4x^3 - 4x^2 + 3x - 3$

6. $16x^3 - 8x^2 - 10x + 5$

7. $5x^2 + 7x - 6$

8. $6x^2 + 17x + 12$

Solve by factoring

9. $2x^3 - 16 = 0$

10. $2x^4 - 13x^2 = -15$

Divide using long division

15. $(2x^3 + 7x^2 - 6x + 5) \div (2x - 1)$

16. $(x^4 + 2x^3 - x + 5) \div (x - 1)$

17. $(2x^3 + 8x^2 - 3x + 5) \div (x^2 + 2x - 1)$