

Chapter 7 Review

1. For $5x^2 - 7x - 6$, it's the two numbers that multiply to -6 and add up to -7 . Now do the problem.

FACTOR!!!!

2. $5x^2 - 31x + 6$

3. $25 - 81y^2$

4. $9x^2 - 81$

5. $x^2 + 9$

6. What is a difference of squares and what does it factor into? Create an example that shows this.

7. $y^4 - 16x^4$

8. $5x^2 - 20$

9. $3x^4 + 15x^3 - 3x^2$

10. $x^2 + 4x + 16$

Solve for x

11. $(x + 69)(x - 100)(x + 579098) = 0$

12. $-3x^2 - 7x + 6$

13. $x^2 + 12 = 7x$

14. $x(x + 23) + 60 = 0$

15. $3x(2 + x) = 24$

16. $(x - 3)(x + 2) = 6$