

MATH 3 HOMEWORK – FACTORING – UNIT 1

FACTOR COMPLETELY

1. $10x^2 - 90$

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

3. $4x^2 + 7x + 3$

4. $3m^2 + 17m + 10$

5. $27a^2 - 9a + 18$

6. $5x^3 - 40$

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

8. $16x^4 - 625y^4$

9. $x^3 - 10x^2 + 13x$

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

11. $x^3 + 64$

12. $x^4 + 4x^2 - 12$

13. The area of a rectangle can be modeled by the expression $4x^2 - 25$. What are the side lengths of the rectangle?

14. What is the perimeter of the rectangle from question #13?

15. Is $(2x - 3)^2 - 64$ equivalent to $(2x - 11)(2x + 5)$? Explain why or why not.

16. Is it possible for a rectangle to have an area of $2y^2 + 11y + 18$, if the side lengths are binomials/ Explain.