

Unit 8 and 9 Practice

Factor:

1. $25x^2 + 15x$

2. What is the perimeter of the rectangle that has an area of $7x + 14$? (**Factor/add sides**)

3. $16x^2 - 49y^2$

4. $2x^3 - 18x$

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

6. $2x^2 + 11x + 5$

7. $6x^2 + 9x - 27$

8. $3x^3 - 8x^2 + 4x$

9. Write a simplified expression for the perimeter of rectangle with an area of $3x^2 - 2x - 5$.

10. The volume of a rectangular prism is: $10x^3 + 42x^2 + 8x$

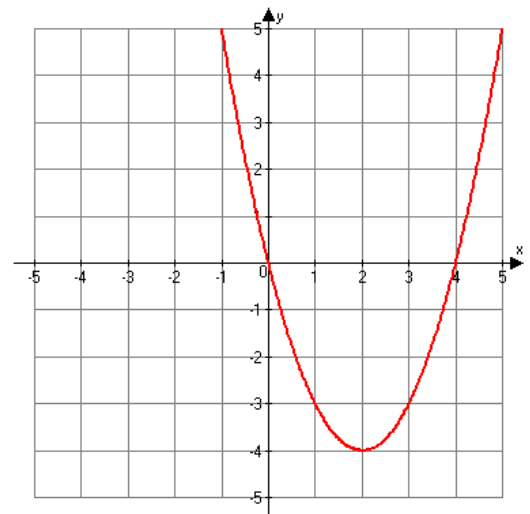
11. $x^2 + Px + 36 = (x + 6)^2$

Find the length, width and height of the prism.

What is the value of P?

Given the graph at the right

How does the graph open?	Up or Down
Does it have a Min or Max?	Min or Max
State the y-intercept	
State the Axis of Symmetry	
State the Vertex	
State the Solutions	
State the Domain	
State the Range	



12. $f(x) = x^2 + 6x + 8$

13. $0 = x^2 - 25$

14. $x^2 - 8x = 0$

15. $2x^2 - 6x + 5 = -3x + 4$