

Math C

Unit 4 Quiz - practice test

1. Simplify the following radical expression.
 $\sqrt{60xy^2}$

2. Simplify the following radical expression.
 $(\sqrt[4]{x^5})^3$

3. Simplify the following polynomial expression.
 $(4x + 7) - (2x - 9) - (5x + 6)$

4. Simplify the following polynomial expression.
 $2x(x^2 - 6x + 4)$

5. Simplify the following polynomial expression.
 $(x - 8)(x - 9)$

6. Simplify the following polynomial expression.
 $(4x + 1)(4x - 1)$

7. Simplify the following polynomial expression.
 $(3x + 4)^2$

8. What is the vertex of the following quadratic function?
 $y = -2(x + 5)^2 - 7$

9. What is the range of the following quadratic function?
 $y = 2(x - 3)^2 + 5$

10. Rewrite the following quadratic function into standard form.
 $y = -2(x - 4)^2 + 20$