

Complete the following problems.

1.) Multiply $\sqrt[3]{6x^2} \cdot \sqrt[3]{4x^5}$

2.) Simplify $\sqrt{64x^5y^8}$

3.) Simplify $\sqrt{80} + \sqrt{45} - \sqrt{72}$

4.) What is the extraneous solution to the equation $5 + \sqrt{x+7} = x$?

5.) Simplify: $(3 + \sqrt{6})^2$

6.) Solve: $(4x - 2)^{\frac{2}{3}} - 2 = 14$

7.) Solve for x: $3 + (4 - x)^{\frac{3}{2}} = 11$

8.) Solve for x: $\sqrt{5x + 14} = x - 2$

9.) Simplify: $\sqrt{\frac{7}{8x}}$

10.) Graph $y = -\sqrt{x+2} - 3$. Identify domain and range.



