

Quiz 162

Simplify.

1. $\sqrt{81} \div \sqrt[4]{81} - \sqrt[3]{8} \times \sqrt[5]{-1}$

2. $\sqrt{80x^2yz^2}$

3. $3\sqrt{24} - \sqrt{3}(\sqrt{6} + 2\sqrt{18}) + \sqrt{32}$

Solve.

4. $\sqrt{2x + 5} = \sqrt{x + 9}$

5. The diagonal of a rectangle is 14 inches. Its width is 7 inches. What is the length of the rectangle in simplest radical form?