

Must show all steps and all work to earn full credit.

Find the root if it is a real number.

1)  $\sqrt[3]{-216}$

2)  $\sqrt[4]{-625}$

3)  $-\sqrt[6]{\frac{1}{64}}$

4)  $\sqrt[4]{\frac{625}{81}}$

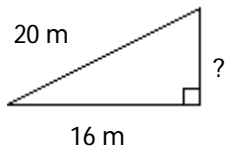
Simplify the root.

5)  $\sqrt[3]{x^{21}}$

6)  $-\sqrt[4]{x^{20}}$

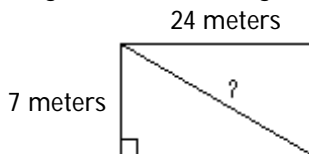
Find the unknown length in the right triangle. If necessary, approximate the length to the nearest thousandth.

7)

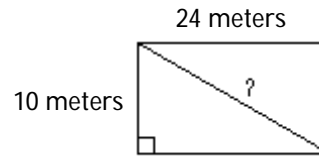


Solve the problem. Give the answer to the nearest thousandth if necessary.

8) The length of a rectangle is 24 meters, and the width is 7 meters. Find the measure of the diagonal of the rectangle.



9) The length of a rectangle is 24 meters, and the width is 10 meters. Find the measure of the diagonal of the rectangle.



Solve.

10) Find the height of the cliff.

