

Problem 37

Mount Everest, at 29,028 ft, is the tallest mountain on Earth. What is its height in kilometers?
(Assume that 1 m = 3.281 ft.)

Solution

Multiply the given height by the appropriate conversion factors to get the desired units.

$$29,028 \text{ ft} = 29,028 \cancel{\text{ft}} \times \frac{1 \cancel{\text{m}}}{3.281 \cancel{\text{ft}}} \times \frac{1 \text{ km}}{1000 \cancel{\text{m}}} \approx 8.8473 \text{ km}$$