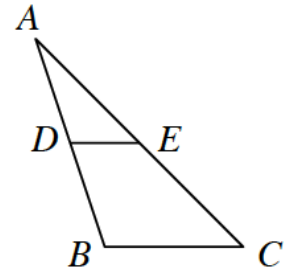


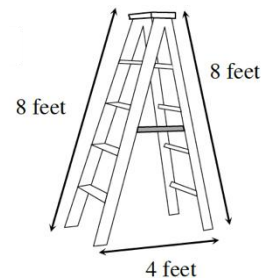
Homework 11.1.1

1. A regular hexagonal prism has a volume of 2546.13 cm^3 and the base has an edge length of 14 cm. What are the height and surface area of the prism?

2. In the diagram at right, DE is a midsegment of $\triangle ABC$. If the area of $\triangle ABC$ is 96 square units, what is the area of $\triangle ADE$? Explain how you know.

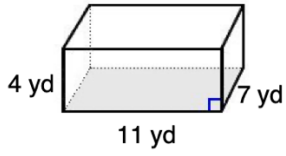


3. Hokiri's ladder has two legs that are each 8 feet long. When the ladder is opened safely and locked for use, the legs are 4 feet apart on the ground. What is the angle that is formed at the top of the ladder where the legs meet?



4. Solve: $x^2 - 4x + 4 = 25$

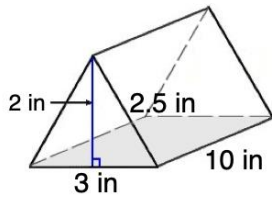
5. Find the surface area and volume of each of the following prisms.



a)

Surface area: _____

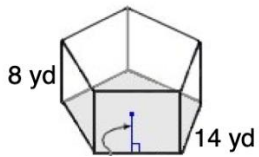
Volume: _____



b)

Surface area: _____

Volume: _____



c)

Surface area: _____

Volume: _____