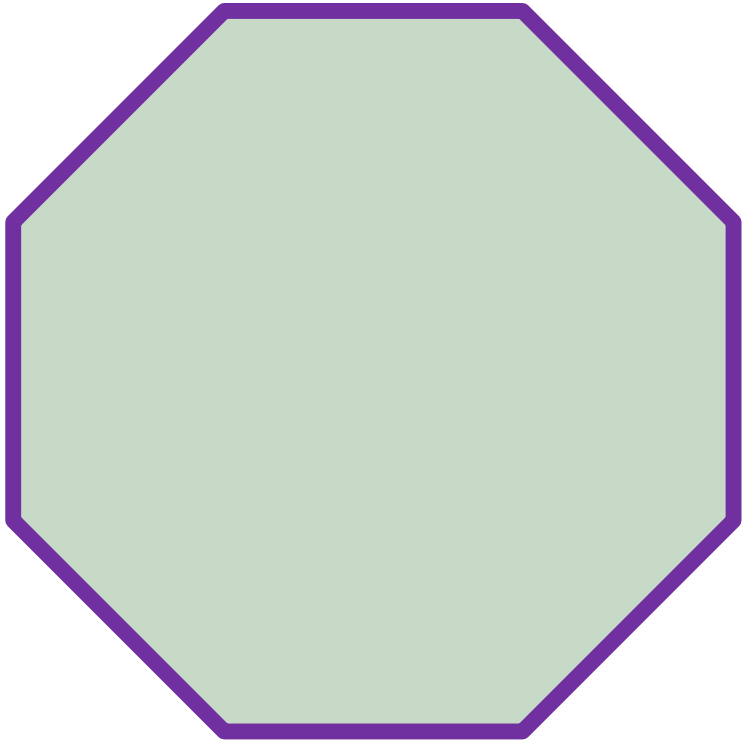
CHAPTERS 3 & 12

REVIEW

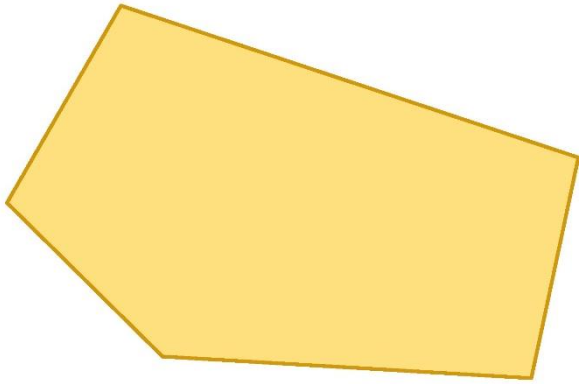
POLYGON INTERIOR ANGLES SUM

The formula to figure the sum of all the angles in a polygon with n sides is:

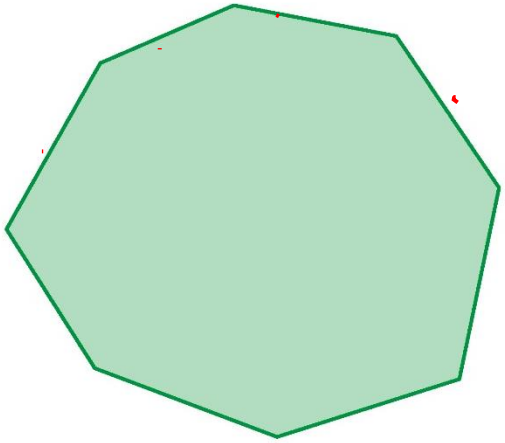


Find the sum of all the interior angles.

1)

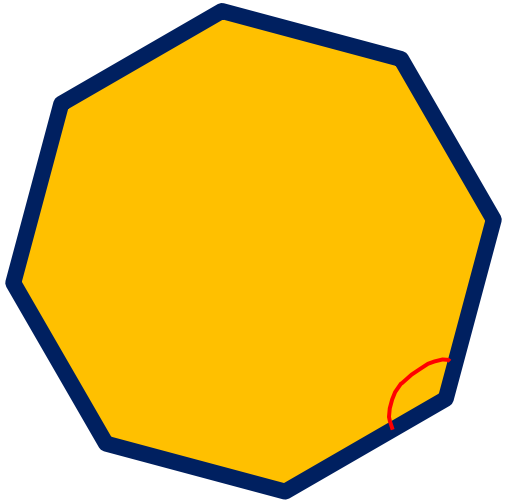


2)



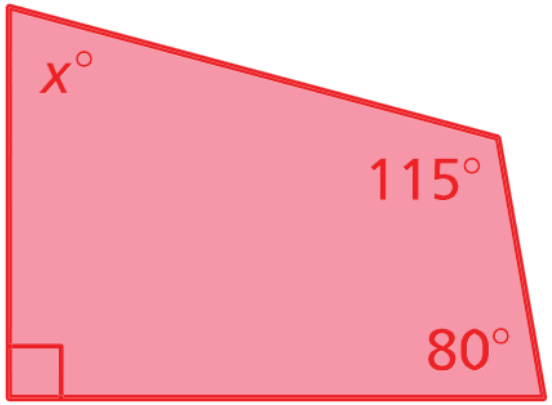
In the following regular polygon, what is the measure of one angle.

3)



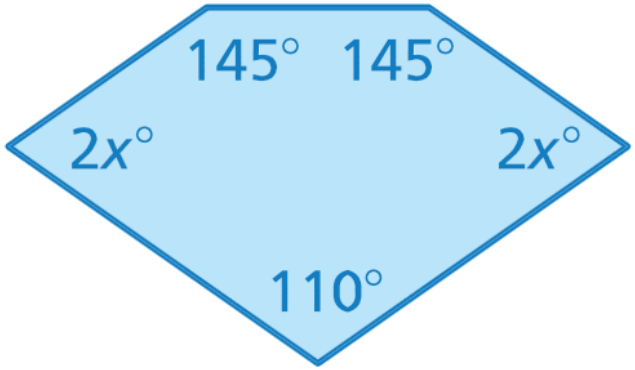
Find the missing angle.

4)



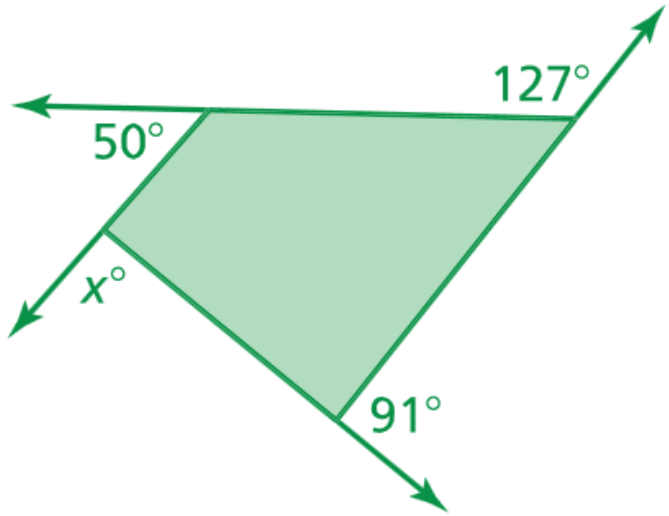
Find the missing angle.

5)



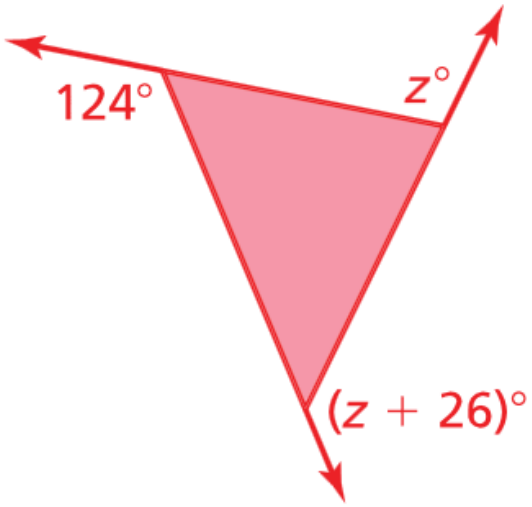
Find the missing angle.

6)

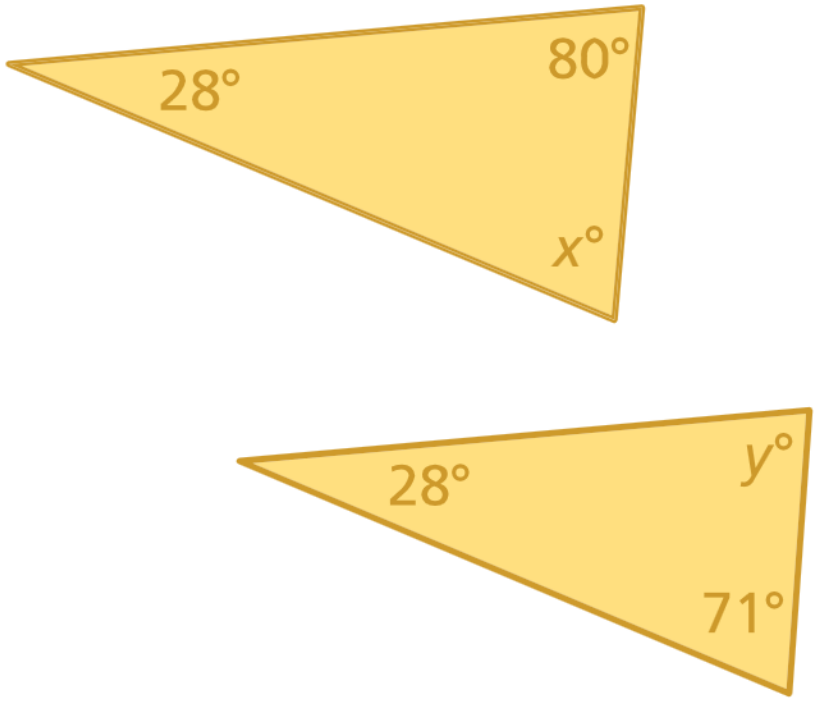


Find the missing angle.

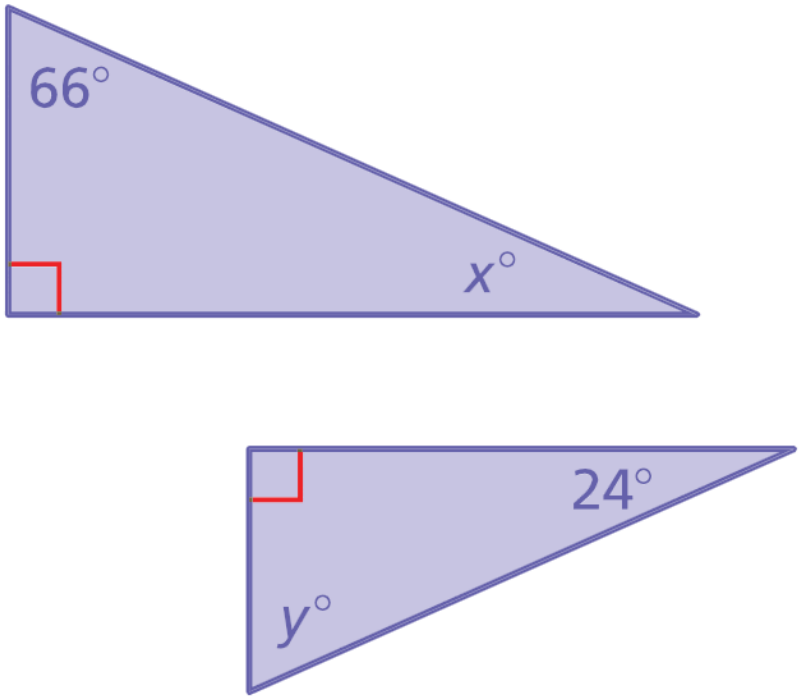
7)



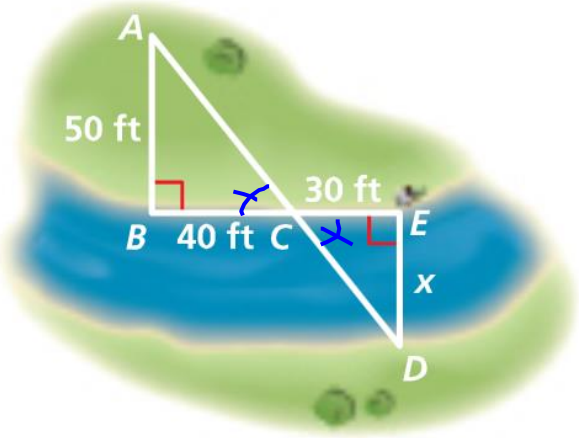
8) Tell whether the triangles are similar. Explain.



9) Tell whether the triangles are similar. Explain.



10) You plan to cross a river and want to know how far it is to the other side. You take measurements on your side of the river and make the drawing shown.



a. Explain why $\triangle ABC$ and $\triangle DEC$ are similar.

b. What is the distance x across the river?

11) A person that is 5 feet tall casts a 3-foot-long shadow. A nearby telephone pole casts a 12-foot-long shadow. What is the height h of the telephone pole?

Formulas

Circumference =

Area of a Rectangle =

Area of a Parallelogram =

Area of a Triangle =

Area of a Trapezoid =

Area of a Circle =

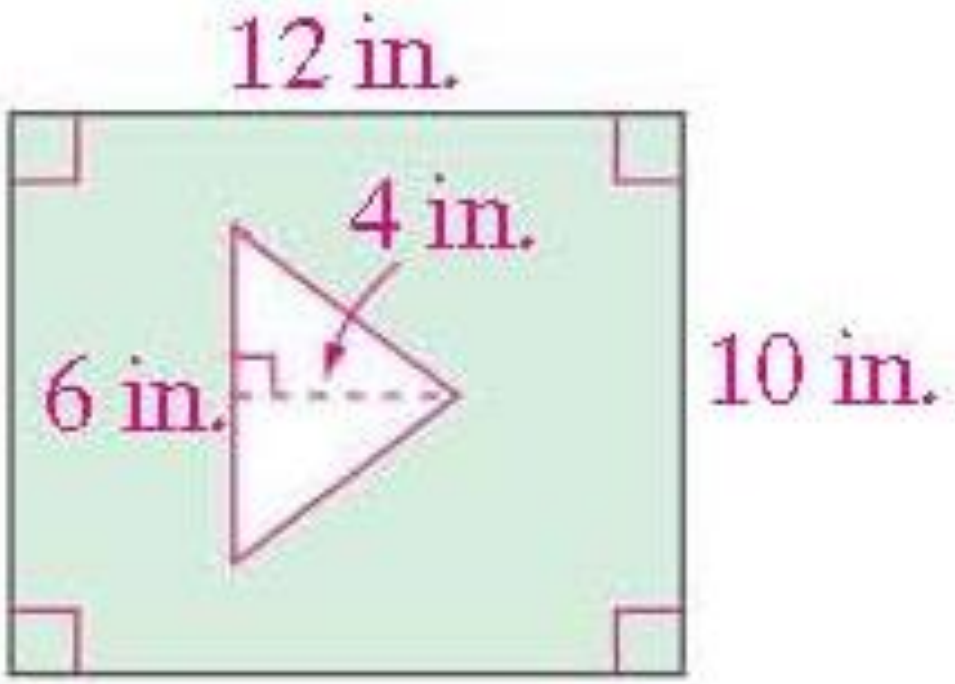
Formulas

Volume of a Prism =

Volume of a Cylinder =

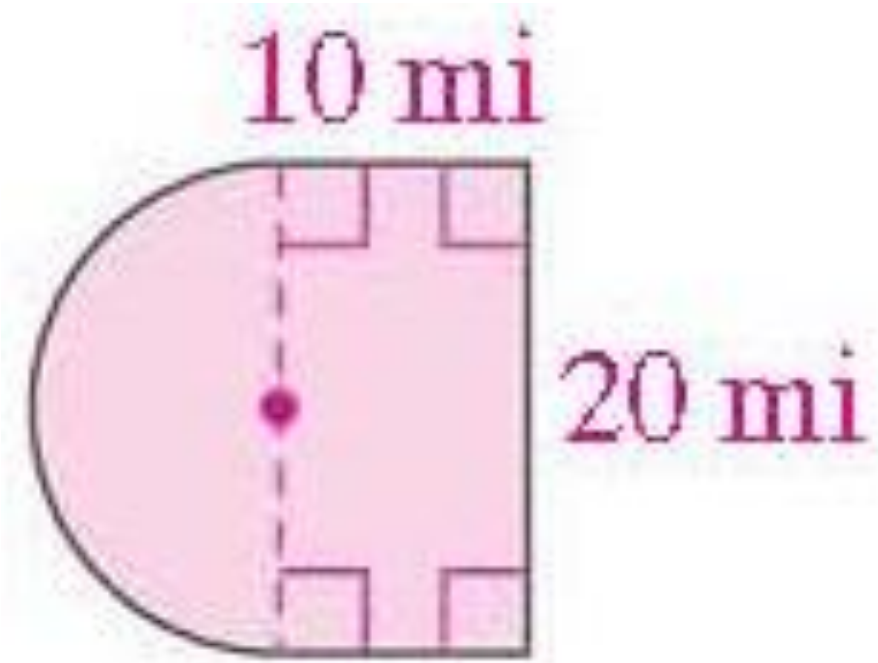
Find the Area

1)



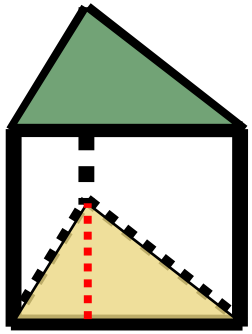
Find the Area

2)



Review of Volume Formulas

Rectangular Prism

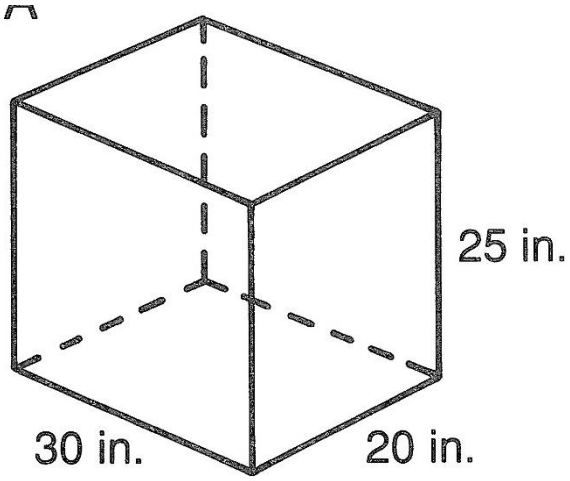


Triangular Prism

Cylinder

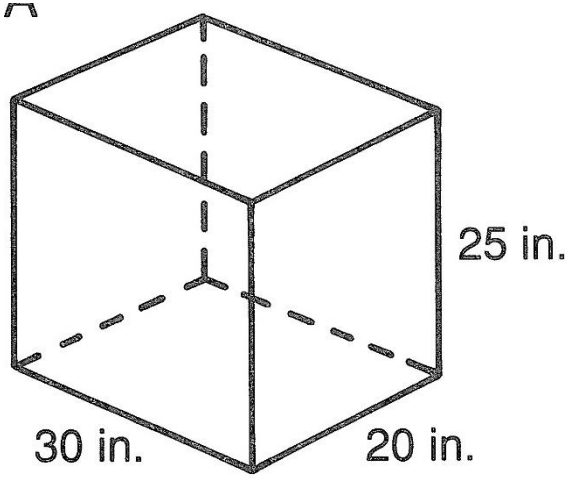
PRACTICE

3) Find the volume



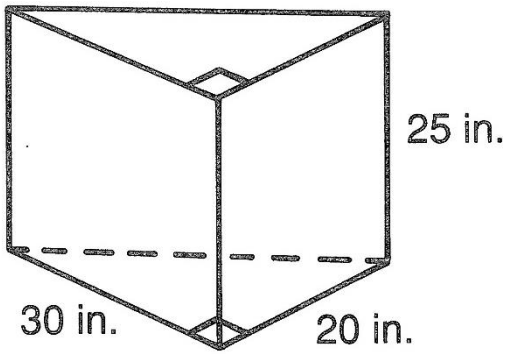
PRACTICE

4) Find the surface area



PRACTICE

5) Find the volume



PRACTICE

6) Find the surface area