

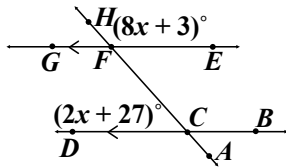
Geometry Unit 9-10 Study Guide: Area and Volume

Simplify.

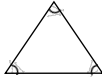
- $-24 + -33$
- $27 - -16$
- $(31)(7)$
- $48 \div -12$

Evaluate.

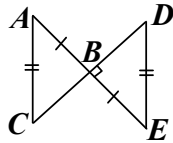
- Y is the midpoint of \overline{XZ} . Y has coordinates $(-4, -7)$, and X has coordinates $(-5, 9)$. What are the coordinates of Z ?
- Find $m\angle GFC$.



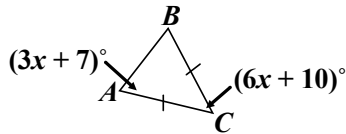
- Classify the triangle by its angles.



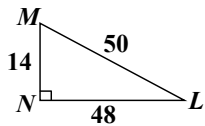
- What postulate or theorem, if any, will prove that $\triangle ABC \cong \triangle EBD$?



- Determine $m\angle B$.

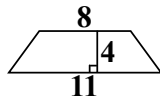


- Write the trigonometric ratio for $\cos L$ as a fraction in its simplest form.



- What postulate or theorem is shown below?
 $\overline{HJ} \cong \overline{HJ}$

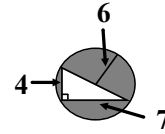
- Determine the area of the trapezoid.



- Determine the perimeter (circumference).



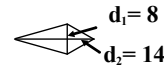
- Determine the shaded area in terms of pi.



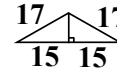
- Determine the area of the composite figure.



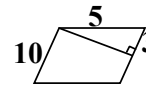
- Determine the area of the kite.



- Determine the area.



- Determine the area.

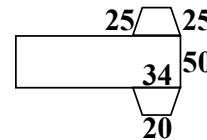


- Determine the volume of a rectangular pyramid with a height of 3 in, a length of 7 in, and a width of 1 in.

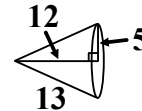
- Determine the volume of a right rectangular prism with a height of 9 cm, a length of 5 cm, and a width of 4 cm.

- The rectangular hexagon has a side length of 6. Determine the length of its apothem.

- The net of a trapezoidal prism is shown below. What is the lateral area?



- Determine the surface area in terms of pi.



- Determine the surface area of a right cylinder with a height of 3 and a radius of 5.

- Determine the volume of a sphere with a diameter of 6 in. Leave your answer in terms of pi.