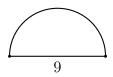
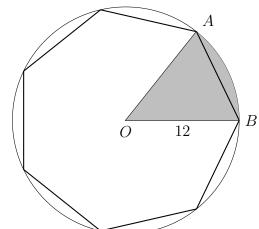
8.5 Do Now: Volumes & solid geometry

1. Find the area of a semi-circle with diameter of 9 centimeters.



- 2. Given circle O with radius OB = 12 cm.
 - (a) Find the circumference of circle O.
 - (b) Find the area of the circle.



(c) A regular heptagon (7 sides) is inscribed in the circle, with A and B two of its vertices.

Find the area of the sector AOB.

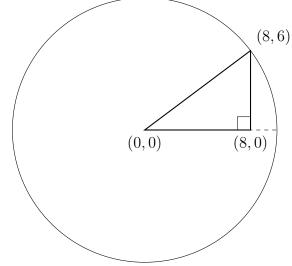
3. Find the volume of a pyramid $(V = \frac{1}{3}Bh)$ having a height of 9 meters and with a square base having side lengths of 14 meters. Express your result to the *nearest cubic meter*.

The equation of a circle

4. A circle centered at the origin includes the point (8,6), as shown below.

(a) Find the radius of the circle.

(b) Name another point on the circle as an ordered pair.



5. What is the equation of a circle with center (1, -5) and radius r = 3. Use the equation $(x - a)^2 + (y - b)^2 = r^2$.

Applying density ratios

6. A large block of stone has a volume of 12 cubic feet. The density of stone is 140 pounds per cubic feet. Find the weight of the block.

7. A tank of heating oil holds 250 gallons. Find the cost to completely fill the tank if heating oil costs \$3.45 per gallon.