

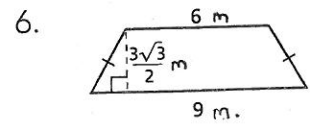
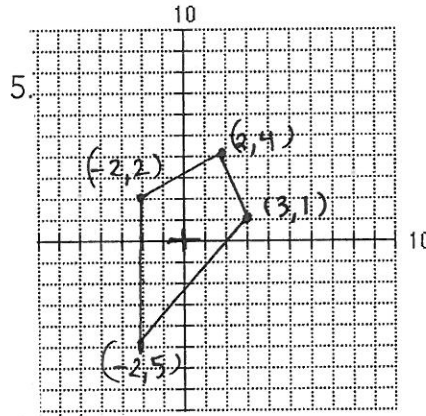
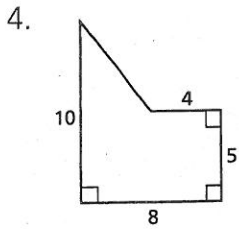
Chapter 9 - Area

#1-6, Find the area of each shape.

1. An equilateral triangle with sides of 23 mm.

2. A regular octagon with an apothem of 4 cm.

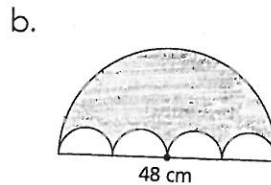
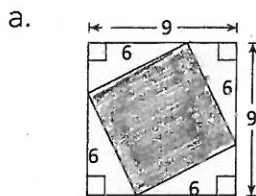
3. A regular pentagon with side lengths of 2 in.



7. The circumference of a circle is 22π mm. Find the area of the circle and leave your answer in π form.

8. The area of a triangle is 610 in^2 . If the base of the triangle is 25 in, what is the height?

9. Find the probability a point lies within the shape and is in the shaded region.

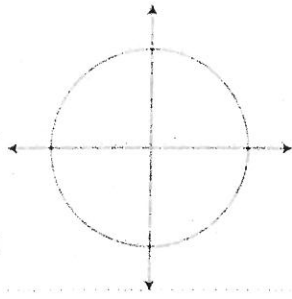


Chapter 8 - Unit Circle

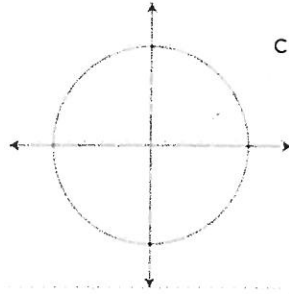
Name: _____

1. Sketch each angle in standard position:

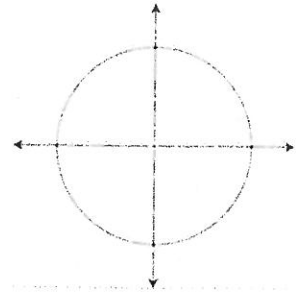
a. 220°



b. $\frac{5\pi}{8}$



c. $-\frac{\pi}{10}$



2. Find one positive and one negative co-terminal angle:

a. 220°

b. $\frac{5\pi}{8}$

c. $-\frac{\pi}{10}$

3. Find the reference angle for:

a. 220°

b. $\frac{5\pi}{8}$

c. $-\frac{\pi}{10}$

4. Convert each degree to radian or radian measure to degree.

a. 220°

b. $\frac{5\pi}{8}$

c. $-\frac{\pi}{10}$

#5-8, Use your completed Unit Circle to fill in the blank.

5. $\sin \frac{3\pi}{4} =$ _____

6. $\cos \frac{5\pi}{6} =$ _____

7. $\tan \frac{5\pi}{3} =$ _____

8. \sin _____ $= -\frac{1}{2}$

9. Write each in reduced radical form:

a. $\sqrt{50}$

b. $3\sqrt{72}$

c. $\frac{5}{\sqrt{7}}$