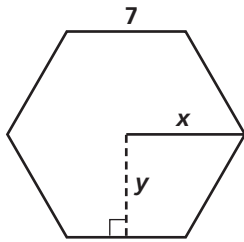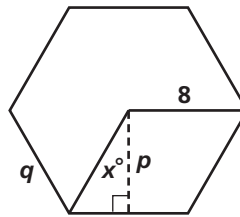# Practice 10-3

Areas of Regular Polygons

Find the values of the variables for each regular hexagon. Leave your answers in simplest radical form.
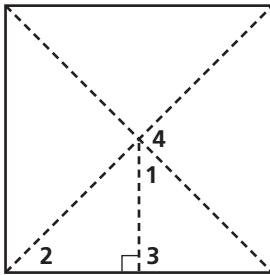
1. $x =$ _____ , $y =$ _____

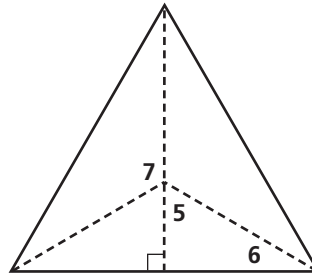**2.** $x =$ _____ , $p =$ _____ , $q =$ _____

Each regular polygon has radii and an apothem as shown. Find the measure of each numbered angle.

3. $m\angle 1 =$ _____ , $m\angle 2 =$ _____ ,
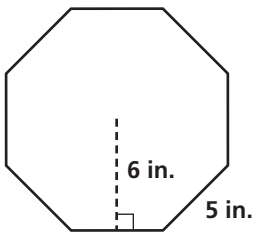
$m\angle 3 =$ _____ , $m\angle 4 =$ _____

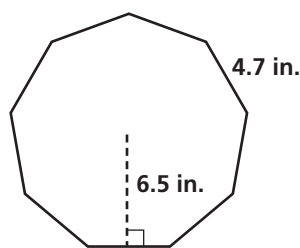**4.** $m\angle 5 =$ _____ , $m\angle 6 =$ _____ ,

$m\angle 7 =$ _____

Find the area of each regular polygon to the nearest square inch.

5. _____

6. _____