# 3.5 Homework

On your own paper, write the answers.

1. Draw a shape that is a 5-sided polygon.

2. Draw a shape that has 5-sides, but is not a polygon.

3. Find the sum of the interior angles and the sum of the exterior angles of a polygon that has:

    a. 9 sides

    b. 12 sides

    c. 18 sides

Solve for x. Write an equation. Show all the steps for solving.

4.

$x°$

$(x + 10)°$ $(x + 5)°$

5.

$x°$ $x°$

$(x+12)°$ $(x+12)°$

$x°$ $x°$
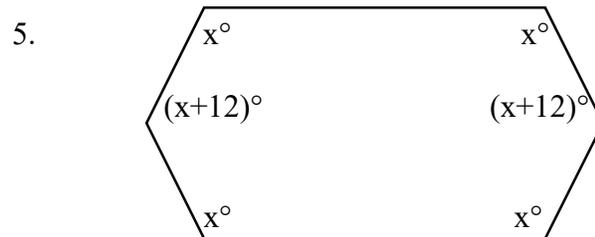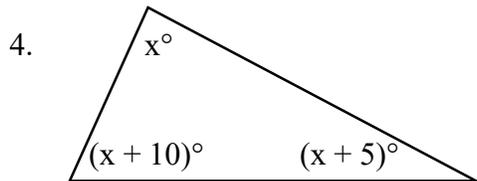
6. A regular polygon has equal sides and equal angles. Find the measure of <u>one</u> interior angle and <u>one</u> exterior angle for each polygon listed.

    a. Pentagon

    b. Decagon

    c. 20-gon