Finding Angles in Regular Polygons
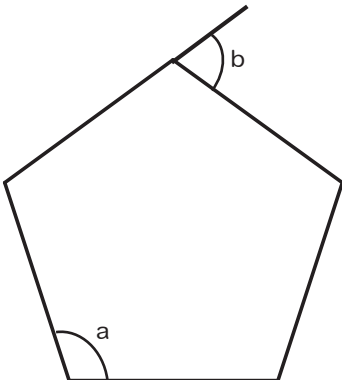
Section A

1) Find the size of each interior angle in a regular hexagon.

_____

2) Find the size of each interior angle in a regular nonagon.

_____

3) Find the size of each <u>exterior</u> angle in a regular dodecagon.

_____

4) Write an expression for the sum of the interior angles in a polygon with n sides.

_____

5) Write an expression for the size of each interior angle in a polygon with n sides.

_____

6) Write an expression for the size of each exterior angle in a polygon with n sides.

_____

Section B

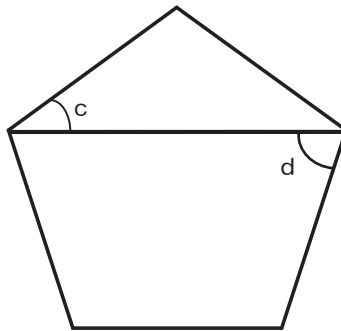*Find the angles indicated. Each question contains one or more regular polygon.*
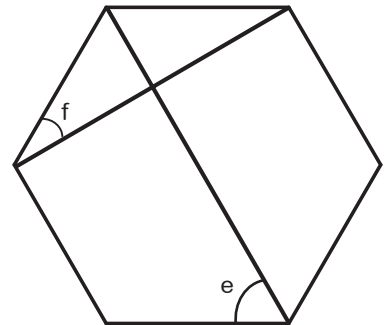
1)

a = _____

b = _____

2)

c = _____

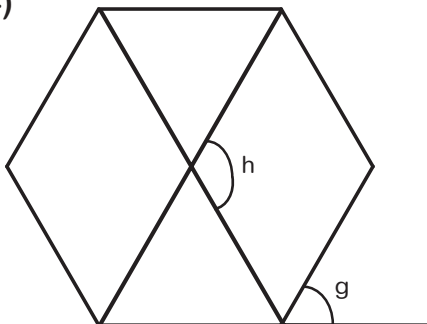d = _____

3)

e = _____

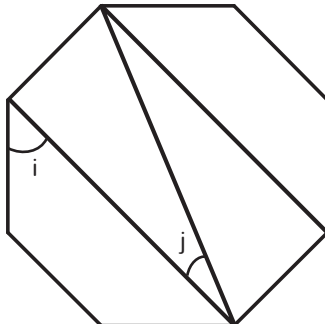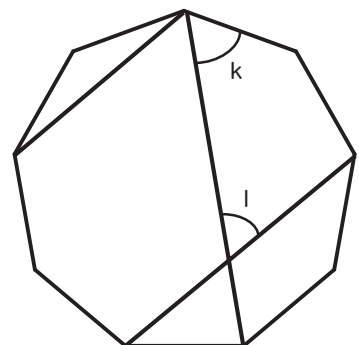f = _____

4)

g = _____

h = _____

5)

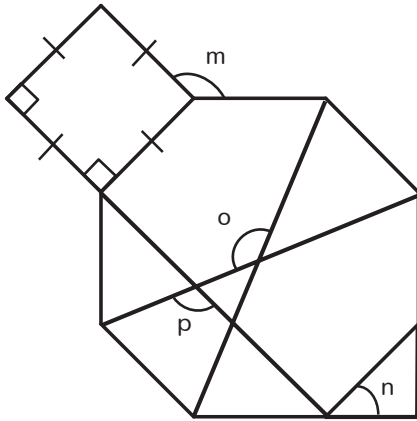i = _____

j = _____

6)

k = _____

l = _____

HSG-CO.A.1

Finding Angles in Regular Polygons

Section B (con't.)

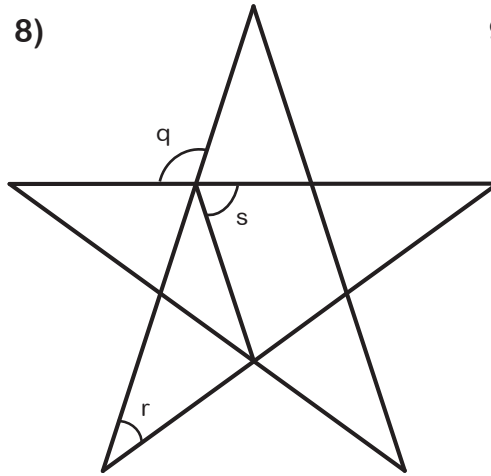*Find the angles indicated. Each question contains one or more regular polygon.*

7)

8)

9)

m = _____

n = _____

o = _____

p = _____

q = _____

r = _____

s = _____

t = _____

u = _____

v = _____
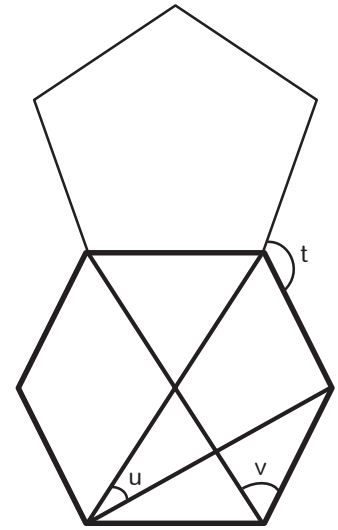
Hint: Look for symmetry in order to assume parallel and perpendicular lines!

Geometry - Polygon

HSG-CO.A.1