Honors Geometry

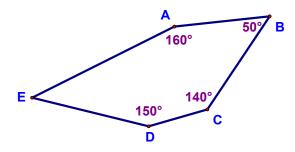
Homework for Section 7.3

Find the sum of the measures of the angles of:

- a. A quadrilateral
- c. An octagon
- e. A 93-gon

2.

Find the m∠E



5.

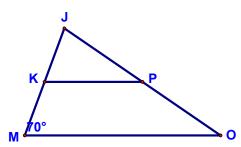
Given: K is a midpoint

P is a midpoint m∠M = 70°

 $m_{\angle}JKP = y + 15$ $m_{\angle}JPK = y - 10$



a. m∠JKP



b. m∠JPK

c. m∠J

6.

Find the sum of the measures of the exterior angles, one per vertex, of each of these polygons:

- a. A triangle
- b. A heptagon
- c. A nonagon
- d. A 1984-gon

10.

How many sides does a polygon have if the sum of the measures of its angles is:

- a. 900°
- c. 2880°
- d. (180x 720)°
- e. 436°

What a	are the	names of	f the noi	voons that	contain t	he following	numbers	of diago	nale?
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a. 14

b. 35

c. 209

14.

Tell whether each statement is true Always, Sometimes, or Never (A, S, or N).

- a. As the number of sides of a polygon increases, the number of exterior angles increases.
- b. As the number of sides of a polygon increases, the sum of the measures of the exterior angles increases.
- c. The sum of the lengths of the diagonals of a polygon is greater than the perimeter of the polygon.
- d. The sum of the measures of the angles of a polygon formed by joining consecutive midpoints of a polygon's sides is equal to the sum of the measures of the angles of the original polygon.

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23.

Seven of the angles of a decagon have measures whose sum is 1220. Of the remaining three angles, exactly two are complementary and exactly two are supplementary. Find the measures of these three angles.

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