

Homework p. 309: 1, 3, 5, 10, 13

1 Find the sum of the measures of the angles of

a A quadrilateral

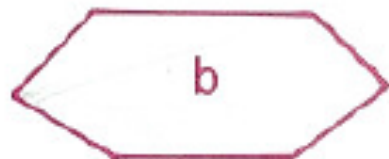
c An octagon

e A 93-gon

b A heptagon

d A dodecagon

3 How many diagonals can be drawn in each figure below?



5 Given: K is a midpoint.

P is a midpoint.

$$m\angle M = 70,$$

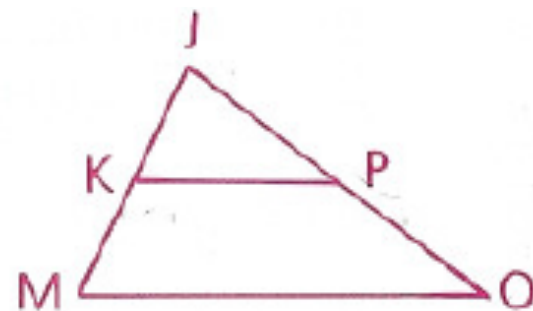
$$m\angle JKP = y + 15,$$

$$m\angle JPK = y - 10$$

Find: **a** $m\angle JKP$

b $m\angle JPK$

c $m\angle J$



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

a 900?

c 2880?

e 436?

b 1440?

d $180x - 720$?

f Six right angles?

13 What are the names of the polygons that contain the following numbers of diagonals?

a 14

b 35

c 209