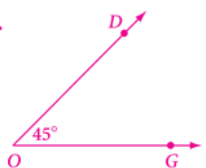


# Homework Check:

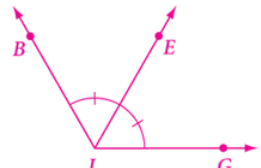
1.



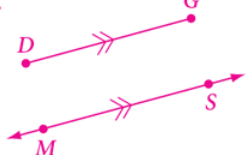
2.



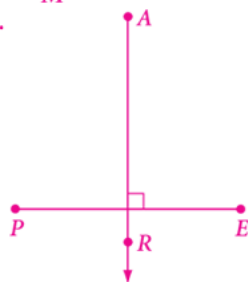
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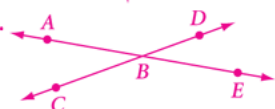
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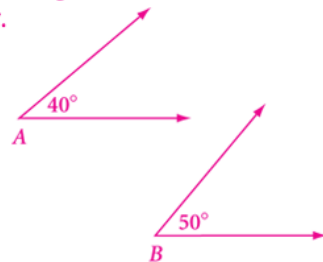
5.



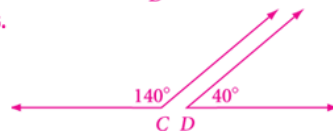
6.



7.



8.

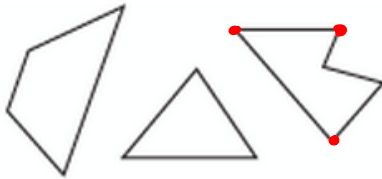


30.  $36^\circ$

## 1.4 Polygons

Polygon - closed figure in a plane, formed by connecting line segments endpoint to endpoint with each segment intersecting exactly two others.

- intersecting exactly two others.

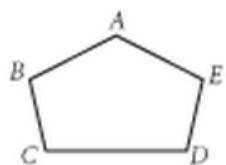
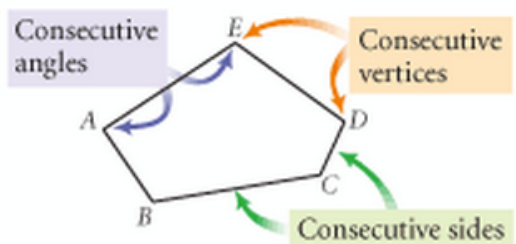
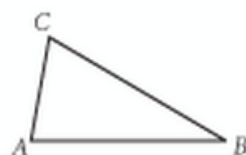


Polygons



Not Polygons

Sides	Name
3	Triangle
4	Quadrilateral
5	Pentagon
6	Hexagon
7	Heptagon
8	Octagon
9	Nonagon
10	Decagon
11	Undecagon
12	Dodecagon
$n$	$n$ -gon

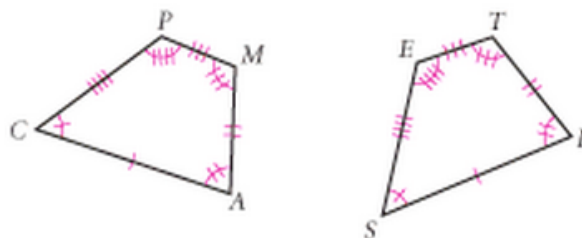
Pentagon  $ABCDE$  $\triangle ABC$

Diagonal - line segment that connects two nonconsecutive vertices

Convex - no diagonal is outside the polygon

Concave - at least one diagonal is outside the polygon

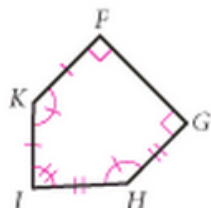
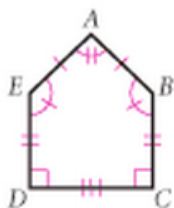




$CAMP \cong SITE$

Which polygon is congruent to  $ABCDE$ ?

$ABCDE \cong \underline{?}$  **NPQLM**



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Equilateral Polygon - polygon in which all sides have equal lengths

Equiangular Polygon - polygon in which all angles have equal measure

Regular Polygon - polygons that are both equilateral and equiangular

