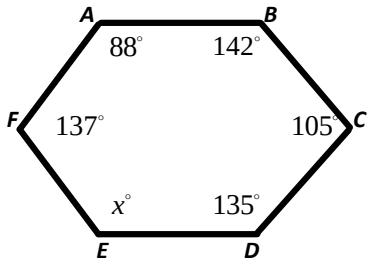
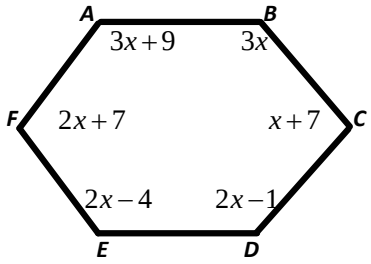
Angles of Polygons

1. Find the sum of the measures of the interior angles of each convex polygon.
   a) 8-gon
   b) $2m$-gon
2. The sum of the measures of the interior angles of a convex polygon is 720°. Find the number of sides.
3. The measure of each exterior angle of a regular polygon is given. Find the number of sides of the polygon.
   a) 72°
   b) 14.4°
4. The measure of each interior angle of a regular polygon is given. Find the number of sides in each polygon.
   a) 144°
   b) 176.4°
5. Find the value of x.



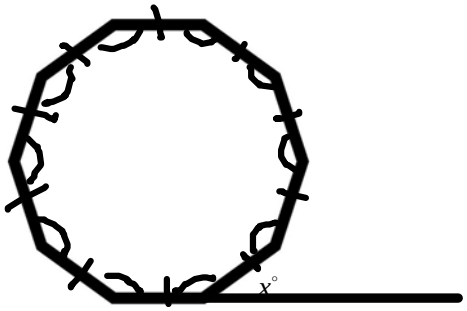
6. Find the measure of each angle.



7. The measures of the interior angles of a pentagon are x, $3x-4$, $2x+2$, $6x-8$ and $2x+4$. Find the measure of each angle.

8. Find the value of x.

a)



b)