Corbettmaths
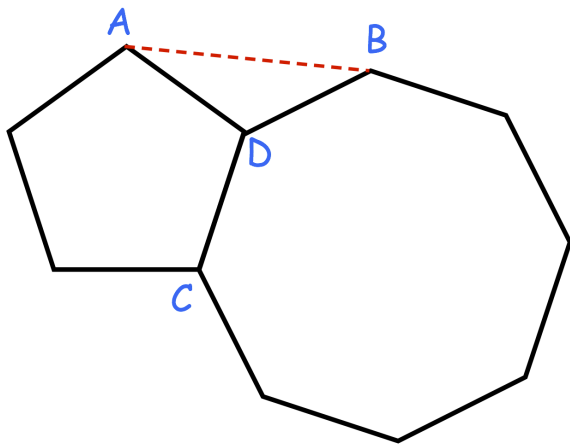
Solve

$$6x^2 + 17x - 39 = 0$$

The point A has coordinates (−6,0)
The point B has coordinates (0,3)
The point C has coordinates (9,−1)

Find the equation of the line that
passes through C and is perpendicular
to AB.

A is a vertex of a regular pentagon.
B is a vertex of a regular octagon.
C and D are vertices of both polygons.

The perimeter of the octagon is 40cm.
Work out the length AB

For all values of x

$f(x) = 3x + 2$ and
$g(x) = (x - 3)^2$

Find $fg(x)$