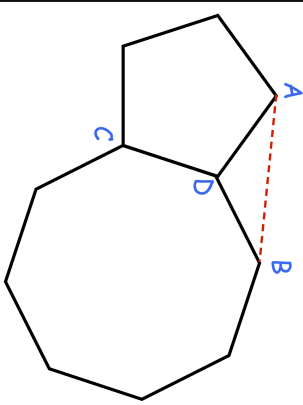
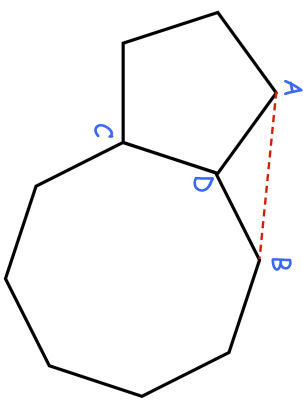


5th June		Corbettmaths
<p>A is a vertex of a regular pentagon. B is a vertex of a regular octagon. C and D are vertices of both polygons.</p> 	<p>The perimeter of the octagon is 40cm. Work out the length AB</p>	
<p>Prove that when two consecutive integers are squared, that the difference is equal to the sum of the two consecutive integers.</p>		
<p>The point A has coordinates $(-6, 0)$ The point B has coordinates $(0, 3)$ The point C has coordinates $(9, -1)$</p> <p>Find the equation of the line that passes through C and is perpendicular to AB.</p>		
<p>For all values of x</p> $f(x) = 3x + 2 \quad \text{and}$ $g(x) = (x - 3)^2$ <p>Find $fg(x)$</p>		

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