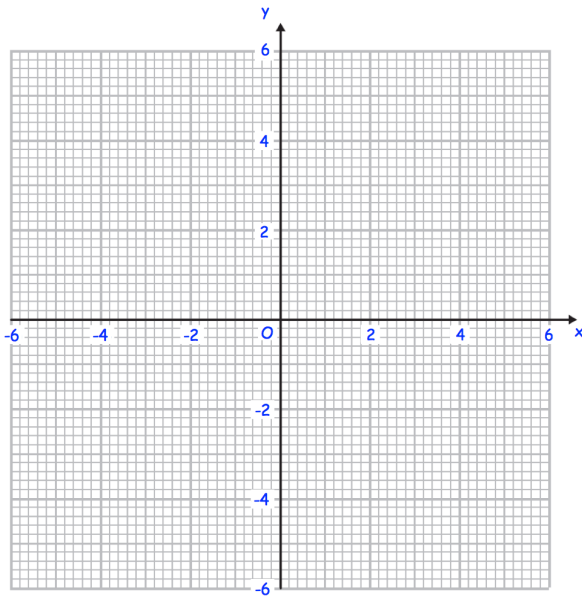


1st April



Corbettmaths



Using the grid, solve the equations

$$x^2 + y^2 = 9$$

$$x + y = 2$$

Given

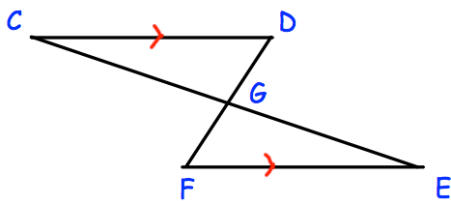
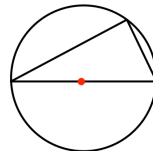
$$f(x) = \frac{x - 9}{3}$$

$$g(x) = 5x - 7$$

Solve

$$f^{-1}(x) = g(x)$$

Prove that the angle in a semi-circle is always  $90^\circ$



In the diagram, the lines CE and DF intersect at G.  
 CD and FE are parallel and  $CD = FE$ .  
 Prove that triangles CDG and EFG are congruent.