5 The equation of a circle is $x^2+y^2+6x-2y-10=0$.

(i) Find the centre and radius of the circle. **[3]**

(ii) Find the coordinates of any points where the line $y=2x-3$ meets the circle $x^2+y^2+6x-2y-10=0$. **[4]**

(iii) State what can be deduced from the answer to part **(ii)** about the line $y=2x-3$ and the circle $x^2+y^2+6x-2y-10=0$. **[1]**