

$$(x+1)(x+2)\frac{\mathrm{d}y}{\mathrm{d}x} = xy.$$

The line with equation y = 2x + 5 is the tangent to C at a point P.

- (a) Find the coordinates of P.
- (b) Find the equation of C, giving your answer in the form y = f(x).

(4)

(8)