- (i) Given that the line AB passes through the point with coordinates (In 5, k), find the value of k. [5]
- (ii) In order to solve the equation $x = \ln \sqrt{9 x}$, a graph of a suitable straight line is drawn on the same set of axes as the graph of $y = 5 e^{2x}$. Find the equation of this straight line. [3]

Solution:

Student can draw a diagram to help them visualize:

5. (i) When
$$x = 0$$
, $y = 5 - e^0 = 4$
 $\therefore A(0, 4)$
When $y = 0$,
 $0 = 5 - e^{2x}$
 $e^{2x} = 5$
 $2x = \ln 5$
 $x = \frac{1}{2} \ln 5$

:.
$$B(\frac{1}{2} \ln 5, 0)$$

Gradient of
$$AB = \frac{4-0}{0-\frac{1}{2}\ln 5}$$

$$= \frac{4}{\frac{\ln 5}{-\frac{2}{2}}}$$

$$= -\frac{8}{\ln 5}$$

$$y = -\frac{8}{\ln 5}x + 4...$$

Substitute (ln 5, k) into ①,

$$k = -\frac{8}{\ln 5} (\ln 5) + 4$$

$$= -8 + 4$$

$$= -4$$

(ii)
$$x = \ln \sqrt{9 - x}$$

$$x = \ln (9 - x)^{\frac{1}{2}}$$

$$x = \frac{1}{2} \ln (9 - x)$$

$$2x = \ln (9 - x)$$

$$e^{2x} = 9 - x$$

$$x - 9 = -e^{2x}$$

$$x - 4 = 5 - e^{2x}$$

$$\Rightarrow \text{ the equation of the straight line is } y = x - 4.$$

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