| 5 | At the point P on the curve $y = e^{3x} - 21x - 8$ the gradient of the tangent is 3. | |
|---|---|-------------------------------|
| | (a) Determine the x-coordinate of P . Give your answer in the form $\ln a$, where be determined. | <i>a</i> is an integer to [4] |

(b) Hence determine the equation of the tangent at P. Give your answer in the form y = 3x + c where c is an exact constant to be determined.