

(2 marks)

(5 marks)

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(3 marks)

(4 marks)

$$(a) \ x^4 - y^4 = 2xy$$

$$(b) \ x^2 + 6xy + y^2 = 5$$

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- 3 Show that the normal to the curve $y = \tan x$ at the point A with coordinates $\left(\frac{\pi}{4}, 1\right)$ (3 marks)
meets the x – axis at the point B $\left(\frac{\pi + 8}{4}, 0\right)$