

Question Number	Scheme	Marks
3.	(a) $a = -3$ $b = 1$ (b) at $(1,0)$ $0 = 1 + \frac{c}{1-3}$ $-1 = \frac{c}{-2}$ $c = 2$ at $(0,d)$ $d = 1 + \frac{2}{-3}$ $d = \frac{1}{3}$	B1 B1 M1 A1 M1 A1 (6)

Notes

Question 3

(a)

B1 for either a or b

B1 for both a and b

M1 for substituting in $y = 0$ and $x = 1$ into the equation of the curve. a need not be substituted for this mark

(b)

A1 for $c = 2$ cso

M1 for substituting $x = 0$ and $y = d$ into the equation of the curve to find d . Neither c nor a need to be substituted for this mark.

A1 $d = \frac{1}{3}$ cso.