Question number	Scheme	Marks
6. **(a)**	$a = 2$, $b = 3$	B1B1 (2)
(b)	At intersection of the curve with the y-axis , $x = 0$ $y = \frac{3\times 0 + c}{0 + '2'} = \frac{c}{'2'}\left(= \frac{7}{2}\right) \Rightarrow c = 7$	M1A1 (2)
(c)	At intersection of the curve with the x-axis, $y = 0$ $0 = \frac{'3'x + '7'}{x + '2'} \Rightarrow '3'x + '7' = 0 \Rightarrow x = -\frac{7}{3} \Rightarrow s = -\frac{7}{3}$	M1A1ft (2) **(6)**

Notes

(a)	B1	For $a = 2$ **or** $b = 3$
	B1	For $a = 2$ **and** $b = 3$
(b)	M1	For using the given equation and setting $x = 0$ and $y = 3.5$ (oe) . They must achieve a value for c for the award of this mark Follow through their values for a and b. If their b is incorrect or they even use the letter b allow $b \times 0 = 0$.
	A1	$c = 7$
(c)	M1	Uses their values for a, b and c and sets $y = 0$. They must achieve a value for x for the award of this mark
	A1ft	For $s = -\frac{7}{3}$