

Question	Answer	Marks	Guidance
(a)	$6y + 2 - 7y^{1/2} [= 0]$	<b>*M1</b>	OE Rearrange to a 3-term quadratic.
	$\left(2y^{\frac{1}{2}} - 1\right)\left(3y^{\frac{1}{2}} - 2\right) [= 0]$ or e.g. $(2u - 1)(3u - 2) [= 0]$	<b>DM1</b>	Or use of formula or completing the square.
	$[y^{1/2} =] \frac{1}{2}, \frac{2}{3}$	<b>A1</b>	Answers only <b>SC B1</b> if DM1 not scored.
	$[y =] \frac{1}{4}, \frac{4}{9}$	<b>A1</b>	Answers only <b>SC B1</b> if DM1 not scored.
		<b>4</b>	
(b)	Use of $\tan x = \text{their } y$ values	<b>M1</b>	Must have at least 2 values of y from part (a).
	$x = 14[.0], 24[.0],$ $x = 194[.0], 204[.0]$	<b>A1</b> <b>A1 FT</b>	FT for 180 + angle (twice). AWRT
		<b>3</b>	

