11	**(a)**		$\frac{dy}{dx} = k\sqrt{x}$	**B1**	**2.1**	may be implied by final answer
			$3 = k \times \sqrt{4}$	**M1**	**1.1**	
			$k = \frac{3}{2}$ **or** $\frac{dy}{dx} = \frac{3}{2}\sqrt{x}$ **isw**	**A1**	**2.2a**	if **B0M0** allow **SC1** for $\frac{dy}{dx} = \frac{k}{\sqrt{x}}$ and $k = 6$ as final answer **or** $\frac{dy}{dx} = \frac{6}{\sqrt{x}}$ as final answer
				[3]		

Question			Answer	Marks	AO	Guidance
11	(b)		their $k \times \frac{x^{\frac{3}{2}}}{\frac{3}{2}}$ **oe** $10 = \left(\sqrt{4}\right)^3 + c$ $c = 2$ or $y = x^{\frac{3}{2}} + 2$ or $y = x\sqrt{x} + 2$ isw	**B1** **M1** **A1**	**3.1a** **1.1** **1.1**	**FT** their k **FT** their integration, one term in x with index 1.5 must see '$y =$' at some point if **B0M0** allow **SC2** for $y = 12x^{\frac{1}{2}} - 14$ or $y = 12\sqrt{x} - 14$ **or** $y = 12x^{\frac{1}{2}} + c$ and $c = -14$
				[3]		