Question	Answer	Marks	Guidance
13	$f'(x) = 4(3x+4)^{\frac{1}{2}} \quad (+c)$	**2**	**M1** for $a(3x+4)^{\frac{1}{2}}$ **A1** for $4(3x+4)^{\frac{1}{2}}$
	$18 = 4(4) + c$	**M1**	**Dep M** mark for attempting correctly to find the value of the arbitrary constant
	$c = 2$	**A1**	
	$f(x) = \frac{8}{9}(3x+4)^{\frac{3}{2}} \quad (+2x+d)$	**M1**	For $b(3x+4)^{\frac{3}{2}}$
	$f(x) = \frac{8}{9}(3x+4)^{\frac{3}{2}} + 2x \quad (+d)$	**A1**	Allow unsimplified
	$\frac{64}{9} = \frac{64}{9} \ (+8) \ + d$	**M1**	**Dep M** mark for attempt to find a second arbitrary constant
	$f(x) = \frac{8}{9}(3x+4)^{\frac{3}{2}} + 2x - 8$	**A1**	