52	(a)	$F_1 = \frac{1}{4\pi\varepsilon_0} \frac{q_1 q_3}{r^2}$	
		$F_1 = 9 \times 10^9 \times \frac{(12 \times 10^{-6})(12 \times 10^{-6})}{(0.15)^2}$	1
		$F_1 = 57.6 \mathrm{N}$	1
	(b)	$F_2 = 57.6 \mathrm{N}$	1
	(c)	F_1 F_2 Vector diagram is labelled	1
		Length and direction of vectors reflects the magnitudes and directions of F_1 and F_2	1
		$\frac{1}{2}F = F_1 \times \cos\theta$	
		$F = F_1 \times \cos\theta \times \frac{2}{1}$	
		$F = 57.6 \times \cos 30 \times 2$	1
		$F = 99.8 \text{N}$, vertically downwards from q_3	1