

Question	Answer	Mark	Mark scheme	Additional guidance
20	Shown	M1	for the method to find a coordinate of the point D eg $\frac{1}{1+3} \times 16 (= 4)$ or $\frac{3}{1+3} \times 8 (= 6)$ or $(4, 6)$ labelled	First two marks may be seen in either order Accept 4 or 6 stated or $(6, 4)$
		M1	for a correct form for L , eg $y = \sqrt{3}x + c$ OR a correct equation for the gradient of L , eg $\frac{[6]-f}{[4]-(-2)} = \sqrt{3}$	Condone incorrect value for c when awarding this mark
		M1	for correct substitution to find c eg $[6] = \sqrt{3} \times [4] + c$ or $y - [6] = \sqrt{3}(x - [4])$ or $c = [6] - [4]\sqrt{3} (= -0.928\dots)$ OR starts to rearrange equation for gradient, eg $[6] - f = ([4] - (-2))\sqrt{3}$	$[4]$ must be clearly identified as the x -coordinate of D if incorrect Award of this mark implies the previous mark $[6]$ must be clearly identified as the y -coordinate of D if incorrect
		M1	(dep on previous M1)for the method to substitute in -2 , eg $\sqrt{3} \times (-2) + [6] - \sqrt{3} \times [4]$ or $\sqrt{3} \times (-2) + [c]$ OR a correct unevaluated expression for f , eg $f = [6] - ([4] - (-2))\sqrt{3}$	$[c]$ must be clearly what they have found to be the y -intercept of L and must have come from correct processes to evaluate
		C1	accurate figure eg $f = -4.39\dots$ or $-4.39\dots < -4$	$-4.39\dots$ must come from correct working Accept -4.4 or better