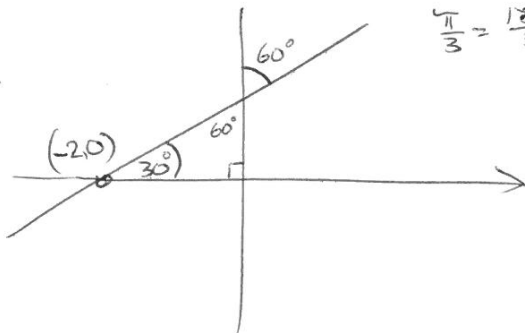
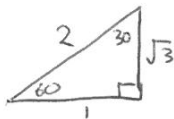


5.



$$\frac{\pi}{3} = \frac{180}{3} = 60$$

$$m = \tan 30 = \frac{1}{\sqrt{3}}$$



$$y - 0 = \frac{1}{\sqrt{3}}(x + 2)$$

$$\sqrt{3}y = 1(x + 2)$$

$$\underline{\underline{\sqrt{3}y = x + 2}}$$

Question			Generic scheme	Illustrative scheme	Max mark
5.			\bullet^1 use $m = \tan \theta$ \bullet^2 evaluate exact value \bullet^3 determine equation	\bullet^1 $m = \tan \frac{\pi}{6}$ or $m = \tan 30^\circ$ \bullet^2 $\frac{1}{\sqrt{3}}$ \bullet^3 eg $y\sqrt{3} = x + 2$ or $y = \frac{1}{\sqrt{3}}x + \frac{2}{\sqrt{3}}$	3
Notes:					
<p>1. Do not award \bullet^1 for $m = \tan^{-1} \frac{\pi}{6}$. However \bullet^2 and \bullet^3 are still available. Where candidates state $m = \tan^{-1} \frac{\pi}{3}$ only \bullet^3 is available.</p> <p>2. Where candidates make no reference to a trigonometric ratio or use an incorrect trigonometric ratio, \bullet^1 and \bullet^2 are unavailable.</p> <p>3. \bullet^3 is only available as a consequence of attempting to use a tan ratio. See Candidate F</p> <p>4. Accept $y = \frac{1}{\sqrt{3}}(x + 2)$ for \bullet^3, but do not accept $y - 0 = \frac{1}{\sqrt{3}}(x + 2)$.</p>					
Commonly Observed Responses:					
Candidate A			Candidate B		
$m = \tan \frac{\pi}{3}$			$m = \frac{1}{\sqrt{3}}$ (with or without a diagram) $\bullet^1 \wedge \bullet^2 \boxed{\checkmark 2}$		
$m = \sqrt{3}$			$y = \frac{1}{\sqrt{3}}x + \frac{2}{\sqrt{3}}$		
$y = \sqrt{3}x + 2\sqrt{3}$			$\bullet^3 \boxed{\checkmark 1}$		
Candidate C			Candidate D		
$m = \tan \theta$ (with or without a diagram) $\bullet^1 \wedge$			$m = \tan \theta$ (with or without a diagram) $\bullet^1 \wedge$		
$m = \frac{1}{\sqrt{3}}$			$m = \sqrt{3}$		
			$y = \sqrt{3}x + 2\sqrt{3}$		
			$\bullet^2 \boxed{\checkmark 1}$		
			$\bullet^3 \boxed{\checkmark 1}$		
Candidate E			Candidate F		
$m = \tan \theta = \frac{\pi}{6}$			$m = \tan \frac{\pi}{3}$		
$m = \frac{1}{\sqrt{3}}$			$m = 60$		
			$y = 60(x + 2)$		
			$\bullet^1 \times$		
			$\bullet^2 \boxed{\checkmark 1}$		
			$\bullet^3 \times$		