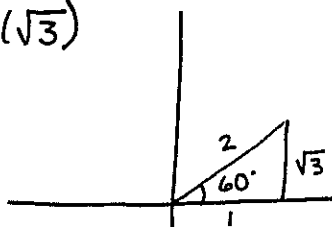


BONUS ASSIGNMENT
 009-50 SECTION 04
 SOLUTIONS

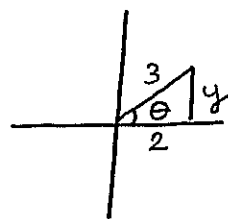
P. 208 #110Q

(i) $\tan^{-1}(\sqrt{3})$



$\theta = 60^\circ$
 $= \frac{\pi}{3} \text{ RADIANS}$

(o) $\sin(\cos^{-1}(2/3))$



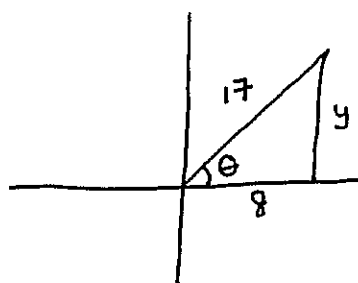
$2^2 + y^2 = 3^2$
 $y^2 = 5$
 $y = \sqrt{5}$

$\cos^{-1}(2/3)$
 is Angle θ such that
 $\cos \theta = 2/3$

$\sin \theta = y/r = \frac{\sqrt{5}}{3}$

(q) $\cot(\cos^{-1}(8/17))$

$\cos \theta = 8/17$



$8^2 + y^2 = 17^2$
 $y^2 = 225$
 $y = 15$

$\cot \theta = \frac{x}{y} = \frac{8}{15}$