



Trig Sec 2-5 p. 102 (3-42) m3, 65, 66

③ $\theta = -60^\circ$




$\alpha = 60^\circ$

⑥ $\theta = \frac{-\pi}{4}$



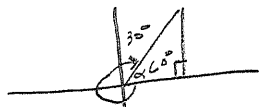
$\alpha = 45^\circ$ or $\frac{\pi}{4}$

⑨ $\theta = -210^\circ$



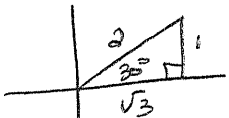
$\alpha = 30^\circ$

⑫ $\theta = \frac{-5\pi}{3} = -300^\circ$

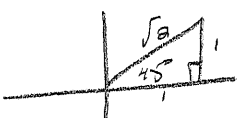


$\alpha = 60^\circ$ or $\frac{\pi}{3}$

⑮ $\sin 30^\circ = \frac{1}{2}$

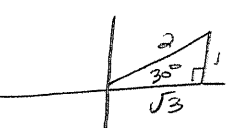


⑱ $\cot \frac{\pi}{4} = \frac{1}{\tan 45^\circ}$



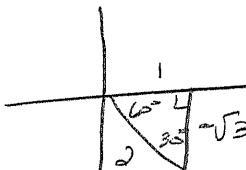
$\frac{1}{1} = 1$

⑳ $\tan \frac{\pi}{6} = \frac{1}{\sqrt{3}}$




$= \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$

㉑ $\cos(-60^\circ) = \frac{1}{2}$

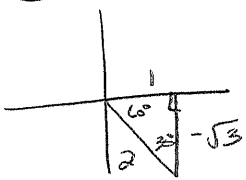


㉒ $\cos \frac{\pi}{6} = \cos 30^\circ$



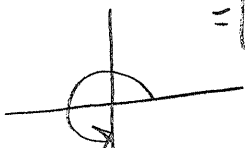
$= \frac{\sqrt{3}}{2}$

㉓ $\cot(-60^\circ)$



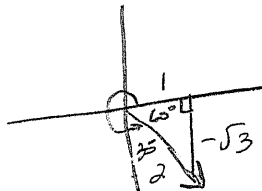
$\tan = \frac{1}{-sqrt(3)} = -\frac{1}{sqrt(3)} = -\frac{sqrt(3)}{3}$

㉔ $\sin \frac{3\pi}{2}, \sin 270^\circ$



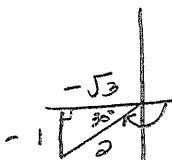
$= -1$

㉕ $\cos 30^\circ = \frac{1}{2}$



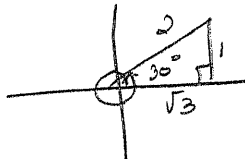
$= \frac{1}{2}$

㉖ $\cos \frac{-5\pi}{6} = \cos -150^\circ$



$= -\frac{\sqrt{3}}{2}$

㉗ $\sec 30^\circ = \frac{1}{\cos} = \frac{1}{\frac{\sqrt{3}}{2}}$



$= \frac{2}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$

㉘ a) $x = 14$
 $y = 7\sqrt{3}$

㉙ a) $\frac{y\sqrt{3}}{\sqrt{2}} = \frac{4}{\sqrt{3}}$
 $y = \frac{4}{\sqrt{3}} \cdot \sqrt{2} = \frac{4\sqrt{2}}{\sqrt{3}}$
 $x = 2 \left(\frac{4\sqrt{2}}{\sqrt{3}} \right) = \frac{8\sqrt{2}}{\sqrt{3}}$

b) $\frac{x\sqrt{2}}{\sqrt{2}} = \frac{4}{\sqrt{2}}$

b) $y = 5$ $x = 5\sqrt{2}$

$x = \frac{4 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \frac{4\sqrt{2}}{2}$

c) $x = \frac{3}{2}$
 $y = \frac{3\sqrt{3}}{2}$

$y = x = 2\sqrt{2}$

a) $\frac{y\sqrt{3}}{\sqrt{3}} = \frac{5}{\sqrt{3}}$
 $y = \frac{5}{\sqrt{3}} \cdot \sqrt{3} = \frac{5\sqrt{3}}{3}$

$x = 2 \left(\frac{5\sqrt{3}}{3} \right) = \frac{10\sqrt{3}}{3}$