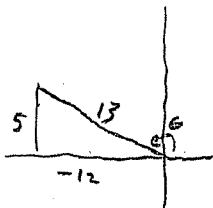


MATH 1201 QUIZ #5

1. SEC 5.3 #25. $\sin \theta = \frac{5}{13}$, θ in QII $\csc \theta = \frac{13}{5}$



$\cos \theta = -\frac{12}{13}$

$\sec \theta = -\frac{13}{12}$

$\tan \theta = -\frac{5}{12}$

$\cot \theta = -\frac{12}{5}$

2. SEC 5.3 #65

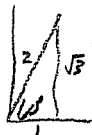
3. SEC 5.3 #89

4. SEC 5.4 #37

5. SEC 5.5 #21

6. SEC 5.5 #61

2. SEC 5.3 #65. $\tan 420^\circ = \tan 60^\circ$
 SUBTRACT 360°
 (1 REV.)



$\therefore \tan 420^\circ = \sqrt{3}$

3. SEC 5.3 #89. $\sin \frac{11\pi}{4} \cos \frac{5\pi}{6} + \cos \frac{11\pi}{4} \sin \frac{5\pi}{6}$

$\sin \frac{3\pi}{4} \cos \frac{5\pi}{6} + \cos \frac{3\pi}{4} \sin \frac{5\pi}{6}$

$(\frac{\sqrt{2}}{2})(-\frac{\sqrt{3}}{2}) + (-\frac{\sqrt{2}}{2})(\frac{1}{2})$

$-\frac{\sqrt{6}}{4} - \frac{\sqrt{2}}{4}$

or $\frac{-\sqrt{6}-\sqrt{2}}{4}$

4. SEC 5.4 #37. $\sin(t+2\pi) - \cos(t+4\pi) + \tan(t+\pi)$

$\sin t - \cos t + \tan t$

$a - b + c$

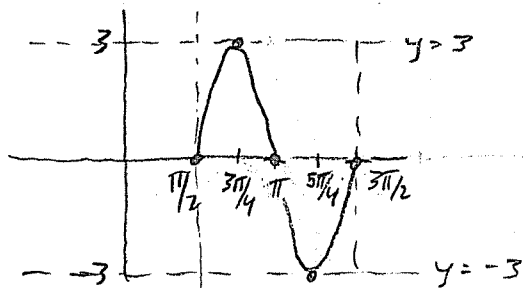
5. SEC 5.5 #21.

$y = 3 \sin(2x - \pi)$

$A = 3 \quad 0 \leq 2x - \pi \leq 2\pi$

$\pi \leq 2x \leq 3\pi$

$\frac{\pi}{2} \leq x \leq \frac{3\pi}{2}$

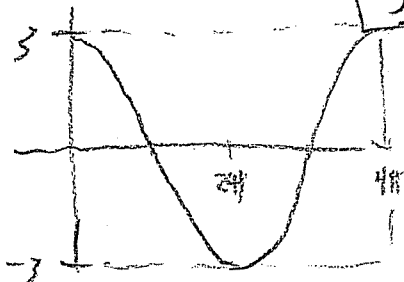


PHASE SHIFT = $\frac{\pi}{2}$

PERIOD = $\frac{2\pi}{2} = \pi$

6. SEC 5.5 #61

$y = 3 \cos(\frac{1}{2}x)$



PERIOD = $\frac{2\pi}{\frac{1}{2}} = 4\pi$

$\frac{1}{2} = B$