

MATH 1201 QUIZ #4

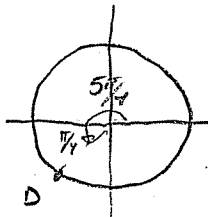
1. SEC 5.1 #15.  $135^\circ \times \frac{\pi}{180^\circ} = \boxed{\frac{3\pi}{4}}$

2. SEC 5.1 #39.  $-4.8 \times \frac{180^\circ}{\pi} \approx \boxed{-275.02^\circ}$

3. SEC 5.1 #65.  $\frac{23\pi}{5} - \frac{10\pi}{5} = \frac{13\pi}{5} - \frac{10\pi}{5} = \boxed{\frac{3\pi}{5}}$

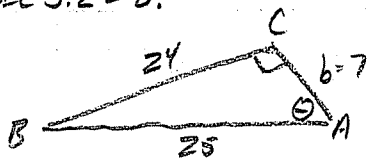
SUBTRACT RADIANS

4. SEC 5.1 #79.



$\boxed{\frac{5\pi}{4} \text{ AND } -\frac{3\pi}{4}}$

5. SEC 5.2 #8.



$b^2 = 25^2 - 24^2$

$\sin \theta = \frac{24}{25}$

$\csc \theta = \frac{25}{24}$

$b^2 = 49$

$\cos \theta = \frac{7}{25}$

$\sec \theta = \frac{25}{7}$

$b = 7$

$\tan \theta = \frac{24}{7}$

$\cot \theta = \frac{7}{24}$

6. SEC 5.2 #19.  $\sin \theta = \frac{1}{3}$ ,  $\cos \theta = \frac{2\sqrt{2}}{3}$

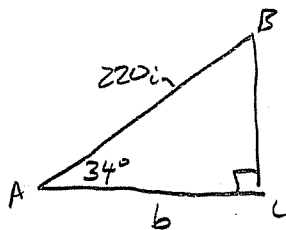
$\tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{1/3}{2\sqrt{2}/3} = \boxed{\frac{1}{2\sqrt{2}}}$

$\cot \theta = 2\sqrt{2}$

$\csc \theta = 3$

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

7. SEC 5.2 #51



$\cos 34^\circ = \frac{b}{220}$

$220 \cos 34^\circ = \boxed{b \approx 182 \text{ in}}$