

Pg. 602 Answers

6.) $\sin B = \frac{5\sqrt{41}}{41}$

$\csc B = \frac{\sqrt{41}}{5}$

$\cos B = \frac{4\sqrt{41}}{41}$

$\sec B = \frac{\sqrt{41}}{4}$

$\tan B = \frac{5}{4}$

$\cot B = \frac{4}{5}$

7.) 26.6m

12.) $-\frac{\sqrt{3}}{3}$

8.) $\frac{29\pi}{36}$

13.) $-\sqrt{2}$

9.) $-\frac{4\pi}{9}$

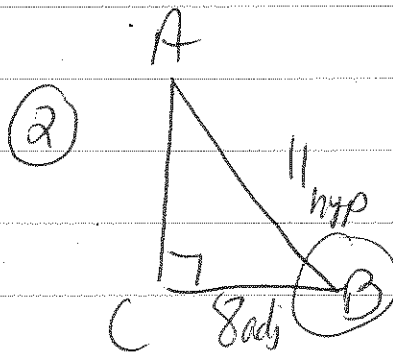
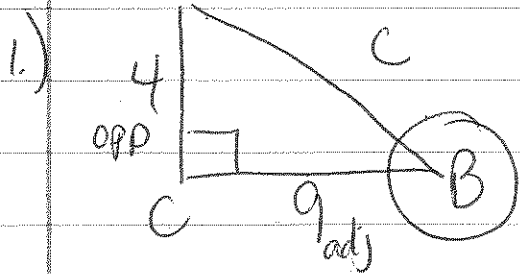
14.) $\frac{1}{2}$

10.) 240°

15.) 2

11.) 330°

Solve the Δ



$\tan B = \frac{4}{9} = \tan^{-1}\left(\frac{4}{9}\right) = 23.96 = m\angle B$

$\cos^{-1} \frac{8}{11} = m\angle B = 43.34^\circ$

$90 - 23.96 = 66.04 = m\angle A$

$90 - 43.34 = 46.66^\circ$

$c^2 = 4^2 + 9^2$
 $16 + 81$

$c = \sqrt{97} \approx 9.85$

$b = \sqrt{121 - 64} = \sqrt{57} \approx 7.54$

$c = \sqrt{97}$