

MAT 126: Trigonometry
Review for Final Exam Solutions

1. a) $\frac{-2\sqrt{85}}{85}$

b) $\frac{\sqrt{33}}{7}$

c) $\frac{-9\sqrt{85}}{85}$

d) $\frac{-4}{7}$

e) $\frac{9}{2}$

f) $\frac{-\sqrt{33}}{4}$

g) $\frac{-\sqrt{85}}{4}$

h) $\frac{7\sqrt{33}}{33}$

i) $\frac{36\sqrt{85} + 2\sqrt{2805}}{595}$

j) $\frac{36}{85}$

k) $\frac{-2}{\sqrt{85}-9} = \frac{-2\sqrt{85}-18}{4}$

2. a) $\frac{\pi}{10}$

b) 1260 degrees

c) $58^\circ 16' 12''$

d) $\frac{11\pi}{10}$

$\frac{22\pi}{5} \approx 13.8$

3. a) $\frac{97}{7} \approx 13.86$

b) 60, 300, 180

c) 75, 105, 255, 285

4 a) $B = 55^\circ$ $a = 4.59$ ft. $b = 6.55$ ft.

