

Chapter Test C

1. $\sin \theta = \frac{3\sqrt{10}}{10}$, $\cos \theta = \frac{\sqrt{10}}{10}$, $\csc \theta = \frac{\sqrt{10}}{3}$,

$\sec \theta = \sqrt{10}$, $\cot \theta = \frac{1}{3}$ 2. $\sin \theta = \frac{\sqrt{33}}{7}$,

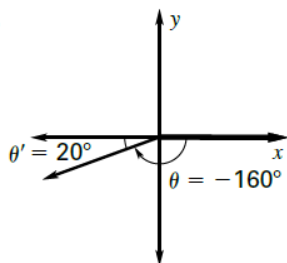
$\tan \theta = \frac{\sqrt{33}}{4}$, $\csc \theta = \frac{7\sqrt{33}}{33}$, $\sec \theta = \frac{7}{4}$,

$\cot \theta = \frac{4\sqrt{33}}{33}$ 3. $B = 53^\circ$, $a \approx 9.0$, $c \approx 15.0$

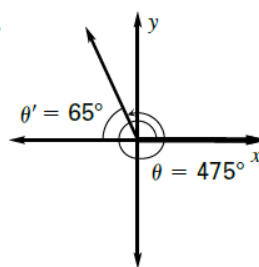
4. $A = 28^\circ$, $a \approx 5.2$, $c \approx 9.7$ 5. Sample answer:

$\frac{3\pi}{5}$, $-\frac{7\pi}{5}$ 6. $\frac{17\pi}{36}$ 7. 337.5° 8. 28π m

9. ; 20°



10. ; 65°



11. -1 12. $-\frac{2\sqrt{3}}{3}$ 13. -45° , $-\frac{\pi}{4}$ 14. 60° , $\frac{\pi}{3}$

15. 111.1° 16. 26.6° 17. not a triangle