

### Quiz Review Answers

1. a.  $128.57^\circ$

b.  $269.29^\circ$

2. a.  $\frac{23\pi}{30}$

b.  $-\frac{16\pi}{9}$

3. a. I

b. III

c. II

d. IV

4. a.  $281^\circ, -439^\circ$

b.  $918^\circ, -162^\circ$

c.  $\pi, -7\pi$

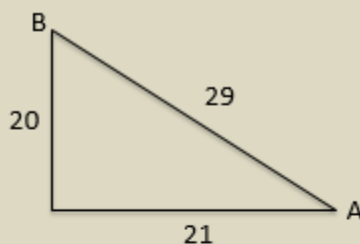
d.  $\frac{16\pi}{3}, -\frac{2\pi}{3}$

6.  $\sin \theta = \frac{4\sqrt{41}}{41}$

$$\cos \theta = \frac{5\sqrt{41}}{41}$$

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

5.



$$\csc \theta = \frac{\sqrt{41}}{4}$$

$$\sec \theta = \frac{\sqrt{41}}{5}$$

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

7.  $19.32 \text{ ft}$

8.  $2145.1 \text{ ft}$

9.  $\theta = 60^\circ$

10.  $184.7 \text{ ft}$

11.  $146 \text{ ft}, 334 \text{ ft}$

12. a.  $30\pi \text{ rad/min}$

b.  $16 \text{ mph}$

c.  $23.3 \text{ revolutions/min}$

13. a.  $90\pi \text{ rad/min}$

b.  $270\pi \text{ in/min}$

14.  $2.32 \text{ revolutions/sec}$