Pre-Calculus 12 Chapter 4 Review

Answer Section

MULTIPLE CHOICE

1. ANS: A PTS: 1 DIF: Easy OBJ: Section 4.1
NAT: T1 TOP: Angles and Angle Measure KEY: radians | degrees

2. ANS: B PTS: 1 DIF: Average OBJ: Section 4.1
NAT: T1 TOP: Angles and Angle Measure KEY: radians | degrees

3. ANS: B PTS: 1 DIF: Easy OBJ: Section 4.1
NAT: T1 TOP: Angles and Angle Measure KEY: radians | degrees

4. ANS: B PTS: 1 DIF: Easy OBJ: Section 4.1
NAT: T1 TOP: Angles and Angle Measure KEY: radians

5. ANS: D PTS: 1 DIF: Average OBJ: Section 4.1
NAT: T1 TOP: Angles and Angle Measure KEY: angle | radians | arc length

6. ANS: C PTS: 1 DIF: Average OBJ: Section 4.1
NAT: T1 TOP: Angles and Angle Measure KEY: rotations | standard position

7. ANS: C PTS: 1 DIF: Average OBJ: Section 4.3
NAT: T2 TOP: Trigonometric Ratios KEY: exact value | unit circle
NOT: tan90 and tan 270 changed to remove undefined

8. ANS: C PTS: 1 DIF: Average OBJ: Section 4.3
NAT: T2 TOP: Trigonometric Ratios KEY: exact value | unit circle | radians
NOT: tan90 and tan270 do not include undefined

9. ANS: D PTS: 1 DIF: Average OBJ: Section 4.3
NAT: T2 TOP: Trigonometric Ratios
KEY: Unit Circle | exact value | tangent ratio

10. ANS: C PTS: 1 DIF: Average OBJ: Section 4.3
NAT: T2 TOP: Trigonometric Ratios
KEY: unit circle | exact value | tangent ratio

11. ANS: C PTS: 1 DIF: Average OBJ: Section 4.4
NAT: T4 TOP: Introduction to Trigonometric Equations
KEY: reciprocal trigonometric ratios | approximate values

12. ANS: C PTS: 1 DIF: Average OBJ: Section 4.3
NAT: T3 TOP: Trigonometric Ratios KEY: trigonometric ratios

SHORT ANSWER

(1) 15.71 rads/sec

(2) $-\frac{1}{2}$

(3) $\theta = 150°$ and $210°$

(4) $\theta = \frac{2\pi}{3}$ and $-\frac{\pi}{3}$

(5) $\frac{2}{\sqrt{13}}$

(6) $\theta = 4.3$ and -2.0

(7) $\theta = 3.6$ and 5.8

(8) $\theta = 210°$ and $330°$

(9) $\theta = \frac{\pi}{6}, \frac{5\pi}{6}, \frac{7\pi}{6}, \frac{11\pi}{6}$

(10) $\theta = 1.1$ and 4.3 and $\theta = \frac{3\pi}{4}$ and $\frac{7\pi}{4}$