

Choose the correct answer in each of the following:

1. $\frac{3\pi}{2} =$

- (a) 270°
 - (b) 240°
 - (c) 720°
 - (d) 420°
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2. $-315^\circ =$

- (a) $-\frac{7\pi}{4}$
 - (b) $\frac{4\pi}{7}$
 - (c) $\frac{7\pi}{4}$
 - (d) $-\frac{4\pi}{7}$
-

3. If $\tan \theta = 2$ and $0 < \theta < \frac{\pi}{2}$ then, $\csc \theta =$

- (a) $\frac{2}{\sqrt{5}}$
 - (b) $\frac{\sqrt{5}}{2}$
 - (c) $-\frac{2}{\sqrt{5}}$
 - (d) $-\frac{\sqrt{5}}{2}$
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4. If $\sin \theta = \frac{1}{2}$ and $\cos \theta = \frac{\sqrt{3}}{2}$ then $\sin 2\theta =$

- (a) $\frac{1}{2}$
 - (b) -1
 - (c) $\frac{\sqrt{3}}{2}$
 - (d) $-\frac{\sqrt{3}}{2}$
-

5. The domain of the function $f(x) = \csc x$ is

(a) $\mathbb{R} - \{\pm \frac{\pi}{2}, \pm \frac{3\pi}{2}, \pm \frac{5\pi}{2}, \dots\}$

(b) $\mathbb{R} - \{0, \pm\pi, \pm 2\pi, \pm 3\pi, \dots\}$

(c) $\mathbb{R} - \{\frac{\pi}{2}, \frac{3\pi}{2}, \frac{5\pi}{2}, \dots\}$

(d) $\mathbb{R} - \{0, \pi, 2\pi, 3\pi, \dots\}$

ans: 1-a, 2-a, 3-b, 4-c, 5-b