



**Solution:**

- a)  $55^\circ$    b)  $67^\circ$    c)  $48^\circ$    d)  $60^\circ$
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6. Find the reference angle of the following angles (in degrees).

- a)  $\frac{5\pi}{6}$                       b)  $\frac{7\pi}{4}$                       c)  $\frac{4\pi}{3}$                       d)  $-\frac{\pi}{6}$

**Solution:**

- a)  $\frac{\pi}{6}$    b)  $\frac{\pi}{4}$    c)  $\frac{\pi}{3}$    d)  $\frac{\pi}{6}$
- 

7. Convert from radians to degrees.

**Solution:**

- a)  $\frac{5\pi}{6} = 150^\circ$                       b)  $\frac{7\pi}{4} = 315^\circ$                       c)  $\frac{4\pi}{3} = 240^\circ$                       d)  $-\frac{\pi}{6} = -30^\circ$
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8. Convert from degrees to radians.

**Solution:**

- a)  $120^\circ = \frac{2\pi}{3}$                       b)  $270^\circ = \frac{3\pi}{2}$                       c)  $210^\circ = \frac{7\pi}{6}$                       d)  $-120^\circ = -\frac{2\pi}{3}$
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9. Write the angles and the values of sine and cosine for the special angles between  $0^\circ$  and  $90^\circ$  (angles in degrees).

Angle:	$0^\circ$	$30^\circ$	$45^\circ$	$60^\circ$	$90^\circ$
$\sin A$	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
$\cos A$	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0

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10. Write the angles and the values of sine and cosine for the special angles between 0 and  $\frac{\pi}{2}$  (angles in radians).

Angle:	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$
$\sin A$	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
$\cos A$	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0