

DPP Daily Practice Problem Physics	Topic : Mathematical Tools DPP No. 3	Time : 30 min. Total Marks : 50 Max.
---	---	---

Type of Questions
 Single choice Objective ('-1' negative marking) Q. 1 to Q. 7
 Multiple choice Objective ('-1' negative marking) Q. 8 & 9
 Subjective Questions ('-1' negative marking) Q. 10 & 11
 Match the following (no negative marking) Q. 12

- Q 1) $\sin 210^\circ$ is equal to
 A) $\frac{1}{2}$ B) $-\frac{1}{2}$
 C) $-\frac{\sqrt{3}}{2}$ D) $\frac{\sqrt{3}}{2}$
- Q 2) $\sin(90^\circ + \theta)$ is -
 A) $\sin\theta$ B) $\cos\theta$
 C) $-\cos\theta$ D) $-\sin\theta$
- Q 3) $\sec(\pi + \theta)$
 A) $\cos\theta$ B) $\tan\theta$
 C) $\sec\theta$ D) $-\sec\theta$
- Q 4) If $A = 60^\circ$ then value of $\sin 2A$ will be
 A) $\frac{\sqrt{3}}{2}$ B) $\frac{1}{2}$
 C) $\frac{1}{\sqrt{3}}$ D) $\frac{1}{\sqrt{2}}$
- Q 5) $\sin(750^\circ) =$
 A) $\frac{1}{2}$ B) $-\frac{1}{4}$
 C) 0 D) $\frac{\sqrt{3}}{2}$
- Q 6) Value of $\sin 225^\circ$ is :
 A) $\frac{1}{\sqrt{2}}$ B) $-\frac{1}{\sqrt{2}}$
 C) 1 D) -1
- Q 7) $\cos\left(\frac{11\pi}{6}\right) =$
 A) $\frac{1}{2}$ B) $-\frac{\sqrt{3}}{2}$
 C) 0 D) $\frac{\sqrt{3}}{2}$
- Q 8) If $\theta = 120^\circ$, then:
 A) $\sin\theta = \frac{\sqrt{3}}{2}$ B) $\cos\theta = \frac{1}{2}$
 C) $\cot\theta = \frac{1}{2}$ D) $\tan\theta = \sqrt{3}$
- Q 9) Which of the following have value equal to 1 ?
 A) $\tan 225^\circ$ B) $-\cos \pi$ C) $\sin\left(\frac{5\pi}{4}\right)$ D) $\tan(405^\circ)$
- Q 10) Find the values of
 A) $\cos(-60^\circ)$ B) $\tan(210^\circ)$ C) $\cos(120^\circ)$ D) $\sin(-1485^\circ)$
- Q 11) The following angle lie in which quadrant -
 (i) $\frac{\pi}{3}$ (ii) $\frac{5\pi}{3}$ (iii) $\frac{2\pi}{7}$ (iv) $\frac{5\pi}{6}$ (v) $\frac{7\pi}{5}$
- Q 12) Match the following columns :
 a) $\cos 307^\circ$ i) $\frac{3}{5}$
 b) $\cot 37^\circ$ ii) $-\frac{3}{5}$
 c) $\cos 127^\circ$ iii) $\frac{4}{3}$
 d) $\cos(-37^\circ)$ iv) $-\frac{4}{3}$
 e) $\tan 307^\circ$ v) $\frac{4}{5}$