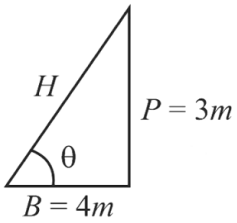
Yakeen NEET 2.0 (2026)

Physics By Manish Raj Sir

Basic Maths & Calculus (Mathematical Tools)

DPP: 2

Q1 Find the value of hypotenuse:



(A) $6m$
(B) $1\ \mathrm{m}$
(C) $5\ \mathrm{m}$
(D) $7\ \mathrm{m}$

Q2 Convert angle from radian to degree $\frac{\pi}{2}$ rad:
(A) 60°
(B) 30°
(C) 90°
(D) 0°

Q3 Convert angle from radian to degree $\frac{\pi}{3}$ rad:
(A) 60°
(B) 30°
(C) 45°
(D) 0°

Q4 Convert angle from radian to degree :
$\frac{5\pi}{6}$ rad
(A) 60°
(B) 30°
(C) 90°
(D) 150°

Q5 Convert angle from radian to degree $\frac{4\pi}{3}$ rad:
(A) 120°
(B) 240°
(C) 150°
(D) 0°

Q6 Convert angle from degree to radian 30° to:
(A) $\frac{\pi}{2}$
(B) $\frac{\pi}{4}$
(C) $\frac{\pi}{6}$
(D) $\frac{\pi}{3}$

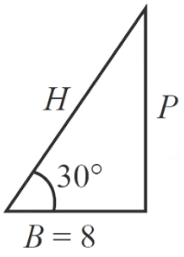
Q7 Convert angle from degree to radian:
90°
(A) $\frac{\pi}{2}$
(B) $\frac{\pi}{3}$
(C) $\frac{\pi}{6}$
(D) $\frac{\pi}{4}$

Q8 Convert angle from degree to radian :
150°
(A) $\frac{\pi}{6}$
(B) $\frac{\pi}{4}$
(C) $\frac{5\pi}{6}$
(D) 8π

Q9 If $\tan\theta = \frac{4}{3}$. Find the value of $\sin\theta$
(A) $\frac{3}{5}$
(B) $\frac{4}{3}$
(C) $\frac{4}{5}$
(D) $\frac{5}{4}$

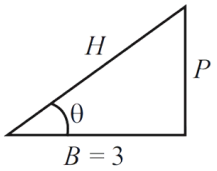
Q10 If $\cos\theta = \frac{4}{5}$, then find the value of $\tan\theta$
(A) $\frac{4}{5}$
(B) $\frac{3}{5}$
(C) $\frac{4}{3}$
(D) $\frac{3}{4}$

Q11 Find the value of P



(A) $\frac{\sqrt{3}}{8}$
(B) 8
(C) $\frac{8}{\sqrt{3}}$
(D) 0

Q12 If θ is very small then find H.



(A) 3
(B) $\frac{3}{5}$
(C) $\frac{4}{5}$
(D) 5

Q13 If $\tan\theta = \frac{5}{12}$; then what is the value of $3\sin\theta + 2\cos\theta$.

(A) 3 (B) 4
(C) -3 (D) 12

Q14 Which of the following option is correct for the value of $\sin\theta$.

(A) 2
(B) $\frac{1}{\sqrt{5}}$
(C) $\sqrt{2}$
(D) $\frac{\sqrt{5}}{2}$

Q15 If $\tan\theta = \frac{\sqrt{5}}{2}$ then; value of $\cos\theta$ is

(A) $\frac{2}{3}$
(B) $\frac{3}{2}$
(C) $\frac{\sqrt{5}}{3}$
(D) 5

Answer Key

Q1	(C)
Q2	(C)
Q3	(A)
Q4	(D)
Q5	(B)
Q6	(C)
Q7	(A)
Q8	(C)
Q9	(C)
Q10	(D)
Q11	(C)
Q12	(A)
Q13	(A)
Q14	(B)
Q15	(A)