PHYSICS CLASS 11 BATCH

Basic Maths & Calculus

DPP-06

1. $(1-x)^2$ find the value if $x << 1$

(1) $1-3x$ (2) $1-2x$

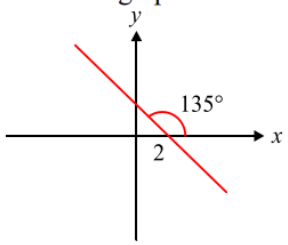
(3) $1+2x$ (4) None

2. $(1+x)^{1/2}$ find the value if $x << 1$

(1) $\left(1+\frac{x}{2}\right)$ (2) $(1+x)$

(3) $\left(1-\frac{x}{2}\right)$ (4) $\left(1-\frac{x}{3}\right)$

3. x-y equation for the graph is:



(1) $y=x-2$ (2) $y=-x+2$

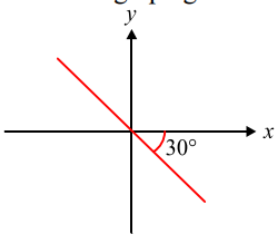
(3) $y=-x-2$ (4) $y=x+2$

4. Line $y=\sqrt{3}x-2$ is intercept y-axis at:

(1) -2 (2) $+2$

(3) $\sqrt{3}$ (4) $-\sqrt{3}$

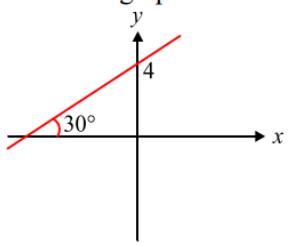
5. x-y equation for the graph given below is:



(1) $y=-\frac{x}{\sqrt{3}}$ (2) $y=\frac{x}{\sqrt{3}}$

(3) $y=\frac{x}{\sqrt{3}}+1$ (4) $y=\frac{-x}{\sqrt{3}}-1$

6. x-y equation for the graph is:



(1) $y=\frac{-x}{\sqrt{3}}+4$ (2) $y=\frac{x}{\sqrt{3}}-4$

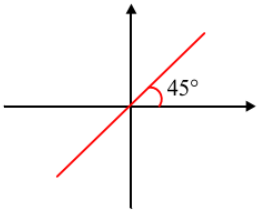
(3) $y=\frac{x}{\sqrt{3}}+4$ (4) $y=\frac{-x}{\sqrt{3}}-4$

7. What is the slope of the given straight line $y=\sqrt{3}x-2$

(1) -2 (2) $\tan^{-1}(2)$

(3) $\tan^{-1}\left(\sqrt{3}\right)$ (4) $\sqrt{3}$

8. For the graph given below write down their x-y equations-



(1) $y=x$ (2) $y=x-2$

(3) $y=\sqrt{3}x$ (4) $y=x+1$

9. Straight line $y=\frac{x}{\sqrt{3}}+2$ is intercept y-axis at:

(1) 2 (2) $\frac{1}{\sqrt{3}}$

(3) -2 (4) $-\frac{1}{\sqrt{3}}$

ANSWER KEY

1.	(2)
2.	(1)
3.	(3)
4.	(1)
5.	(1)
6.	(3)
7.	(3)
8.	(1)
9.	(1)