

 Equation of line passing through origin and making 30°, 60° and 90° with x, y, z axes respectively is

(A) $\frac{2x}{\sqrt{3}} = \frac{y}{2} = \frac{z}{0}$

(B) $\frac{2x}{\sqrt{3}} = \frac{2y}{1} = \frac{z}{0}$

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

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

8. If A and B are two events such that $P(A/B)=2 \times P(B/A)$ and $P(A) + P(B) = \frac{2}{3}$, then P(B) is equal to

(A) $\frac{2}{9}$

(B) ⁷/₉

(C) 4/9

(D) $\frac{5}{9}$

9. Anti-derivative of $\frac{\tan x - 1}{\tan x + 1}$ with respect to x is:

1

(A) $\sec^2\left(\frac{\pi}{4} - x\right) + c$

(B) $-\sec^2\left(\frac{\pi}{4}-x\right)+c$

(C) $\log \left| \sec \left(\frac{\pi}{4} - x \right) \right| + c$

(D) $-\log \left| \sec \left(\frac{\pi}{4} - x \right) \right| + c$

10. If (a, b), (c, d) and (e, f) are the vertices of ΔABC and Δ denotes the area of

 $\triangle ABC$, then $\begin{vmatrix} a & c & e \\ b & d & f \\ 1 & 1 & 1 \end{vmatrix}$ is equal to

1

(A) 2Δ²

(B) 4Δ²

(C) 2A

(D) 4Δ

11. The function f(x) = x |x| is

1

- (A) continuous and differentiable at x = 0.
- (B) continuous but not differentiable at x = 0.
- (C) differentiable but not continuous at x = 0.
- (D) neither differentiable nor continuous at x = 0.

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