Yakeen NEET 2.0 2026

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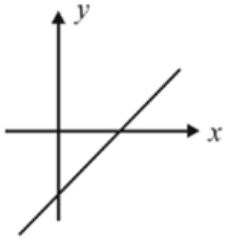
DPP: 4

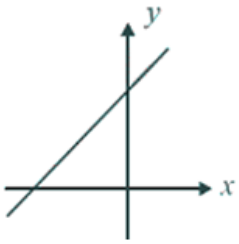
Basic Maths & Calculus (Mathematical Tools)

Q1 Which graph is the best representation for the given equation, $y = 2x - 1$

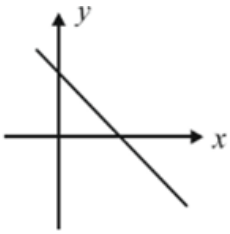
(A)



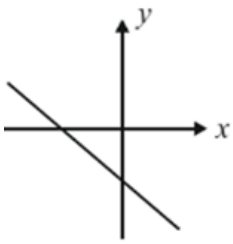
(B)



(C)



(D)



Q2 Find the area of triangle of lines $\frac{x}{6} + \frac{y}{7} = 1, -\frac{x}{4} + \frac{y}{7} = 1$ and x-axis.

(A) 30 sq. units (B) 35 sq. units

(C) 70 sq. units (D) 60 sq. units

Q3 The equation of a line with slope 5 and passing through the point (–4, 1) is :

(A) $y = 5x + 21$

(B) $y = 5x - 21$

(C) $5y = x + 21$

(D) $5y = x - 21$

Q4 The line making an angle (–120°) with x-axis is situated in the :

(A) first quadrant

(B) second quadrant

(C) third quadrant

(D) fourth quadrant

Q5 The slope of straight line $\sqrt{3}y = 3x + 4$ is

(A) 3 (B) $\sqrt{3}$

(C) $\frac{1}{\sqrt{3}}$ (D) $\frac{1}{3}$

Q6 The line 4x + 7y = 12 meets x-axis at the point:

(A) (3, 1) (B) (0, 3)

(C) (3, 0) (D) (4, 0)

Q7 The slope of the line joining P (-4, 7) and Q (2, 3) is:

(A) $-\frac{2}{3}$ (B) $\frac{2}{3}$

(C) $-\frac{3}{2}$ (D) $\frac{3}{2}$

Q8 Which line among the following will pass through origin ?

(A) x + y = 9 (B) 2x - y = 1

(C) x = 4y (D) x - y = 2

Q9 Find the slope of straight line:

$7x = 5y - 2$

(A) 1/5 (B) 7

(C) 7/5 (D) 5/7

Q10 The equation of straight line having slope $\sqrt{3}$ and y intercept of –2 will be:

Q11 The slope of straight line $\sqrt{2}y = x + 7$ is;

(A) 7 (B) $\sqrt{2}$

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

Answer Key

Q1	(A)
Q2	(B)
Q3	(A)
Q4	(C)
Q5	(B)
Q6	(C)
Q7	(A)
Q8	(C)
Q9	(C)
Q10	Refer Module (Basic Maths)
Q11	(C)