



## DPP – 2 (Baic Math)

Video Solution on Website:-

<https://physicsaholics.com/home/courseDetails/36>

Video Solution on YouTube:-

<https://youtu.be/JyrG4yyzppM>

Written Solution on Website:-

<https://physicsaholics.com/note/notesDetalis/70>

- Q 1. Area of triangle formed by line  $y - x = 6$ , x axis and y axis is  
(a) 36 (b) 24 (c) 18 (d) 12
- Q 2. Equation of line parallel to line  $3y + 4x = 12$  and passing through point (3,3) is  
(a)  $3y + 4x = 6$  (b)  $3y + 4x = 9$  (c)  $3y + 4x = 8$  (d)  $3y + 4x = 21$
- Q 3. If straight lines  $3x + 4y = 3$  and  $6x - by = 3$  are perpendicular to each other, Find b ?  
(a)  $3/5$  (b)  $4/9$  (c)  $7/2$  (d)  $9/2$
- Q 4. Distance between points (1,3) & (-3,6)?  
(a) 5 (b) 3 (c) 4 (d) None of these
- Q 5. Coordinates of the point which divides the distance between the points A(0,2) & B(4,0) in the ratio 1:2 is?  
(a)  $(\frac{1}{3}, \frac{2}{3})$  (b)  $(-\frac{4}{3}, -\frac{4}{3})$  (c)  $(\frac{4}{3}, \frac{4}{3})$  (d)  $(-\frac{1}{3}, -\frac{1}{3})$
- Q 6. Find the gradient of line  $3x + 5y - 2 = 0$ ?  
(a)  $-\frac{3}{5}$  (b)  $-\frac{5}{3}$  (c) -3 (d) 5
- Q 7. Find out the slope of line which is passing through the points (5,0) & (-2,6)?  
(a)  $\frac{6}{7}$  (b)  $-\frac{6}{7}$  (c) 6 (d) -6
- Q 8. Find out the equation of line which is passing through the points (3,1) & (2,-1)?  
(a)  $x - 3y - 2 = 0$  (b)  $x - y = 0$   
(c)  $y - 2x + 5 = 0$  (d)  $2y - x + 5 = 0$
- Q 9. Point of intersection of lines  $3x + 2y - 1 = 0$  &  $y = x + 2$ ?  
(a)  $(-\frac{3}{5}, \frac{7}{5})$  (b)  $(\frac{3}{5}, \frac{7}{5})$  (c)  $(\frac{3}{5}, -\frac{7}{5})$  (d)  $(-\frac{3}{5}, -\frac{7}{5})$
- Q 10. Find out the 'x' intercept of line  $2x + 4y - 7 = 0$ ?  
(a)  $\frac{2}{7}$  (b)  $\frac{1}{7}$  (c)  $\frac{7}{2}$  (d) 7
- Q 11. Two straight line  $y = m_1x + c_1$  &  $y = m_2x + c_2$  are parallel, if:  
(a)  $m_1 = -m_2$  (b)  $m_1m_2 = -1$  (c)  $m_1m_2 = 0$  (d)  $m_1 = m_2$
- Q 12. Which of the following is not an equation of straight line?  
(a)  $y = 3x + 2$  (b)  $x - 5y - 1 = 0$  (c)  $x = 3y + 2$  (d) None of these



## **Answer Key**

<b>Q.1 c</b>	<b>Q.2 d</b>	<b>Q.3 d</b>	<b>Q.4 a</b>	<b>Q.5 c</b>
<b>Q.6 a</b>	<b>Q.7 b</b>	<b>Q.8 c</b>	<b>Q.9 a</b>	<b>Q.10 c</b>
<b>Q.11 d</b>	<b>Q.12 d</b>			

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