ARJUNA (NEET)

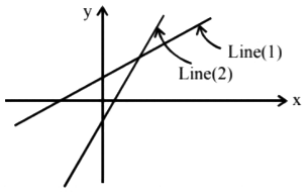
Mod 1

Graph

DPP-02

pg 1

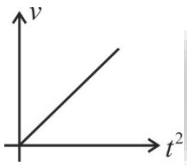
1. Which of the following statement is not correct for following straight line graph :

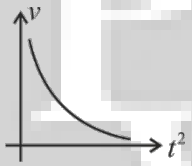


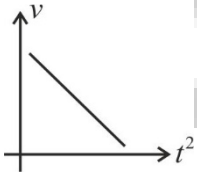
(A) Line (2) has negative y intercept
(B) Line (1) has positive y intercept
(C) Line (2) has positive slope
(D) Line (1) has negative slope

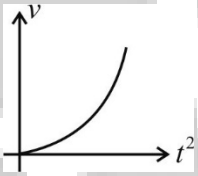
pg 1

2. If velocity v varies with time t as $v = t^2$, then the plot between v and t^2 will be given as :

(A) 

(B) 

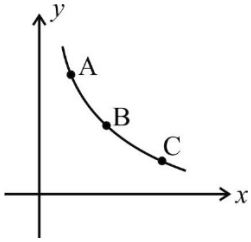
(C) 

(D) 

pg 1

3. The slope of graph in figure at point A, B and C is m_A, m_B and m_C respectively, then :

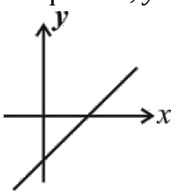
Doubt!! Here slope is increasing!

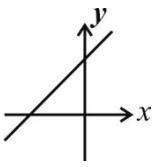


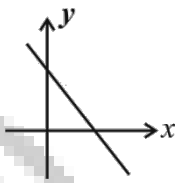
(A) $m_A > m_B > m_C$ (B) $m_A < m_B < m_C$
(C) $m_A = m_B = m_C$ (D) $m_A = m_B < m_C$

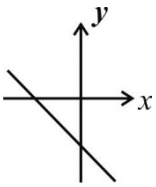
pg 2

4. Graph is the best representation for the given equation, $y = 2x - 1$

(A) 

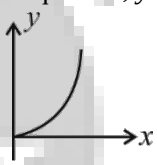
(B) 

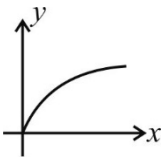
(C) 

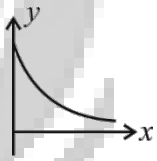
(D) 

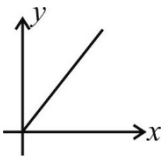
pg 2

5. Graph is the best representation for the given equation, $y \propto x^2$

(A) 

(B) 

(C) 

(D) 

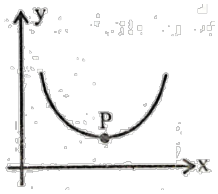
pg 2

6. The equation $\sqrt{x} = 2y$, represents that graph between x and y is a :

(A) Straight line (B) Parabola
(C) Hyperbola (D) Circle

pg 2

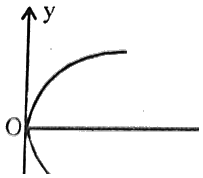
7. At point P, the value of slope is :



(A) Zero (B) Positive
(C) Negative (D) Infinite

pg 2

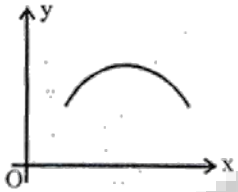
8. At $x = 0$, value of slope is :



(A) 0 (B) 1
(C) –1 (D) Infinite

pg 2

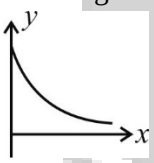
9. Magnitude of slope *i.e.*, steepness of graph shown in figure.



(A) First increase and then decreases
(B) First decreases and then increases
(C) Decreases continuously
(D) Increases continuously

pg 3

10. Which of the following equation is the best representation of the given graph's ?



(A) $y = \frac{2}{x}$ (B) $y = e^{-x}$
(C) $y = \frac{1}{x^2}$ (D) $y = x^2$

pg 3

11. The distance between points (2, 3, –7) and (–2, 0, 5) is

(A) 5 (B) 13
(C) $\sqrt{145}$ (D) $\sqrt{119}$

pg 3

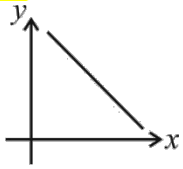
12. The slope of straight line $\sqrt{3}y = 3x + 4$ is

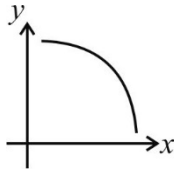
(A) 3 (B) $\sqrt{3}$
(C) $\frac{1}{\sqrt{3}}$ (D) $\frac{1}{3}$

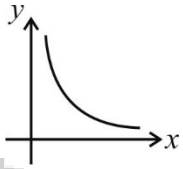
DOUBT! Page 4 (Module 1)

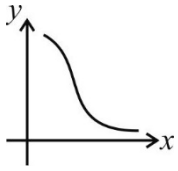
pg 4

13. Graph of $x^2y = 2$ is best represented by :

(A) 

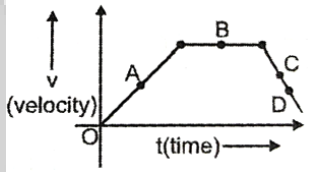
(B) 

(C) 

(D) 

pg 4

14. The slope of $v - t$ is zero at point :

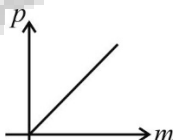


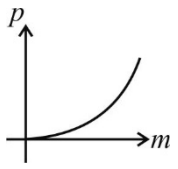
(A) A (B) B
(C) C (D) D

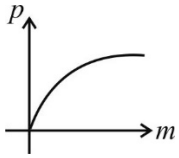
pg 4

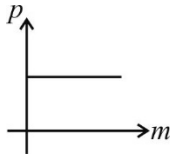
15. Draw graph between momentum and mass of the object for constant K.E.

$[P = \sqrt{2mx.E} = mv]$

(A) 

(B) 

(C) 

(D) 

ANSWERS

1. **(D)**
2. **(A)**
3. **(A)**
4. **(A)**
5. **(A)**
6. **(B)**
7. **(A)**
8. **(D)**
9. **(B)**
10. **(B)**
11. **(B)**
12. **(B)**
13. **(C)**
14. **(B)**
15. **(C)**

Note - If you have any query/issue

Mail us at support@physicswallah.org