

## Yakeen NEET 2.0 (2026)

Physics by Saleem Sir

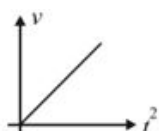
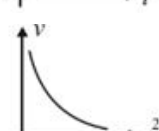
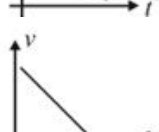
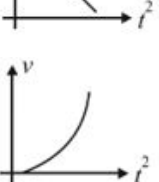
## Basic Maths and Calculus (Mathematical Tools)

DPP: 6

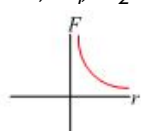
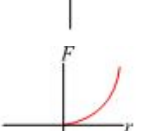
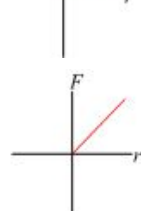
**Q1** What is the equation to the straight line passing through  $(5, -2)$  and  $(-4, 7)$  ?

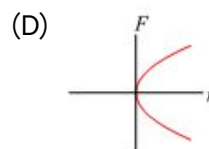
- (A)  $5x - 2y = 4$   
 (B)  $-4x + 7y = 9$   
 (C)  $x + y = 3$   
 (D)  $x - y = -1$

**Q2** If velocity  $v$  varies with time  $t$  as  $v = t^2$  then the plot between  $v$  and  $t^2$  will be given as:

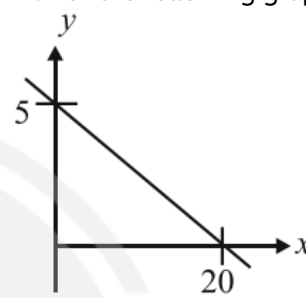
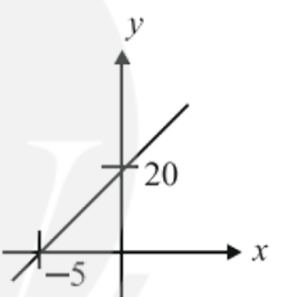
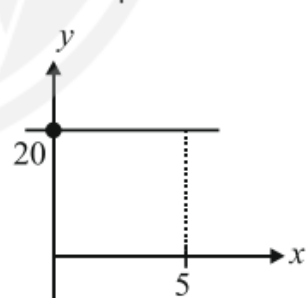
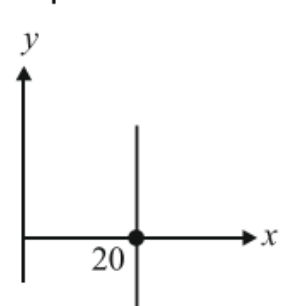
- (A)   
 (B)   
 (C)   
 (D) 

**Q3** If  $F = \frac{Gm_1m_2}{r^2}$  then draw graph between  $F$  and  $r$ . (where,  $m_1$ ,  $m_2$  and  $G$  are constant)

- (A)   
 (B)   
 (C) 

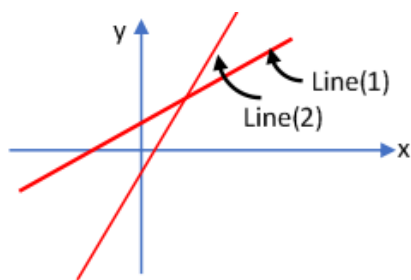


**Q4** In which of the following graph slope is '+4'.

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

**Q5** Which of the following statement is **not correct** for following straight line graph:-

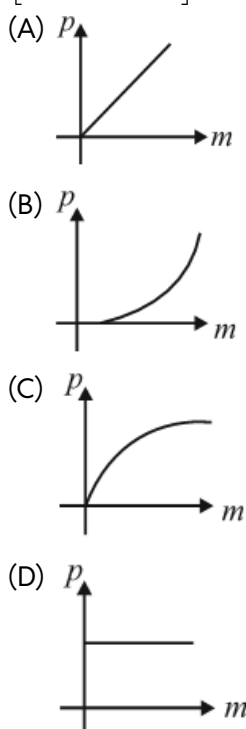




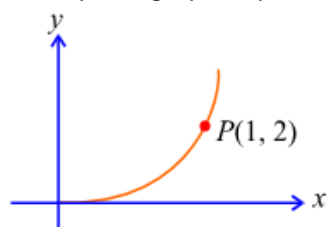
- (A) Line (2) has negative y intercept  
 (B) Line (1) has positive y intercept  
 (C) Line (2) has positive slope  
 (D) Line (1) has negative slope

**Q6** Draw graph between momentum( $p$ ) and mass( $m$ ) of the object for constant kinetic energy  $E$

$$[p = \sqrt{2mE}]$$



**Q7** The equation of graph shown in figure is  $y = 3x^2$ . The slope of graph at point  $P$  is:



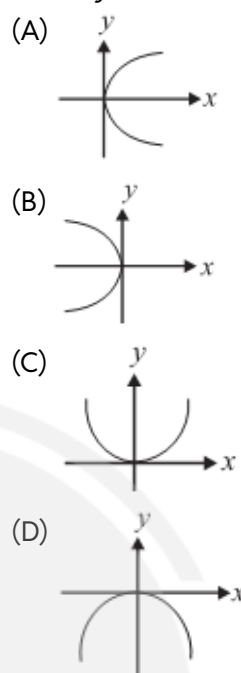
- (A) 1  
 (B) 2  
 (C) 3  
 (D) 6

**Q8** The equation of a curve is given as

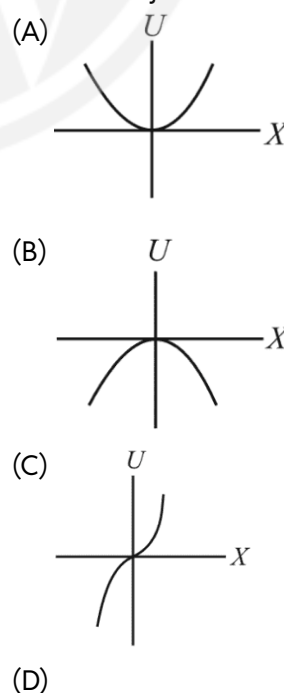
$y = x^2 + 2 - 3x$ . The curve intersects the  $y$ -axis at:

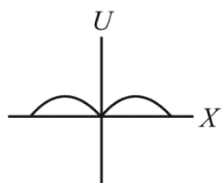
- (A) (0, 1)  
 (B) (2, 0)  
 (C) (0, 2)  
 (D) (1, 0)

**Q9** Which of the following can represent the curve  $x^2 = -2y$ ?



**Q10** A body is attached to a spring whose other end is fixed. If the spring is elongated by  $x$ , its potential energy is  $U = 5x^2$ , where  $x$  is in metre and  $U$  is in joule.  $U - x$  graph is





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## Answer Key

Q1 (C)

Q2 (A)

Q3 (A)

Q4 (B)

Q5 (D)

Q6 (C)

Q7 (D)

Q8 (C)

Q9 (D)

Q10 (A)



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