Yakeen NEET 2.0 (2026)

Physics By Saleem Sir

DPP: 5

Basic Maths and Calculus (Mathematical Tools)

Q1 Find the equation of a straight line passing through point (1, 3) and having slope 2.

(A) y = 2x +1

(B) y = 2x

(C) y = –2x +1

(D) y = 2x + 2

Q2 The slope of straight line 2y = 3x + 5;

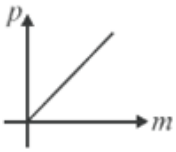
(A) 3 (B) 1

(C) $\frac{3}{2}$ (D) $\frac{5}{2}$

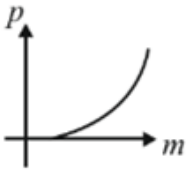
Q3 Draw graph between momentum and mass of the object for constant K.E.

$\left[P = \sqrt{2m.x.E} = mv\right]$

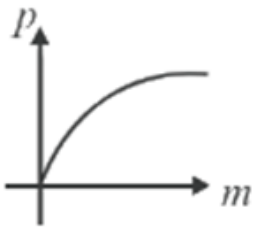
(A)



(B)



(C)



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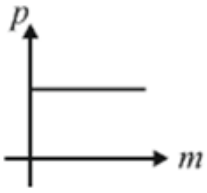
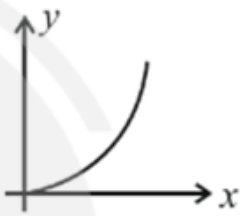


Q4 Which graph is the best representation for the given equation, y α x^2

(A)



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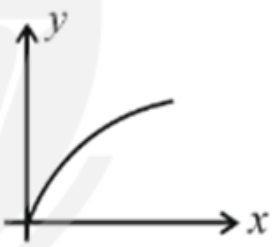

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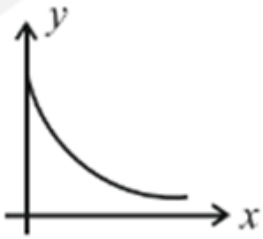

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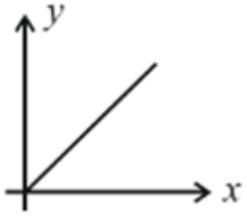
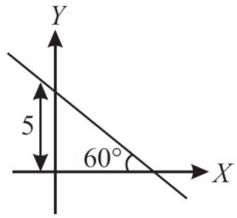


Q5 Plot the graph of given equation,

$Y = \sqrt{3}X + 5$

(A)



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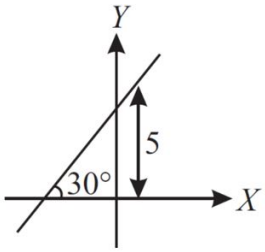
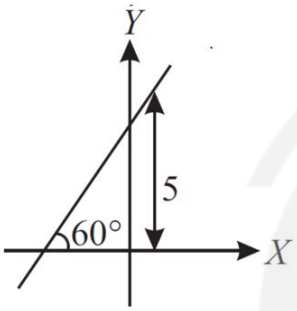
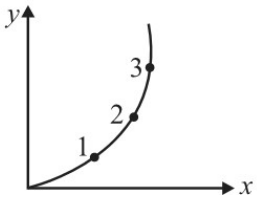


(C)



(D) None of the above

Q6 The slope of graph as shown in figure at point 1, 2 and 3 is m_1, m_2 and m_3 respectively then;



(A) $m_1 > m_2 > m_3$

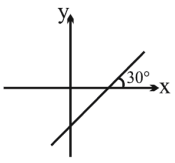
(B) $m_1 < m_2 < m_3$

(C) $m_1 = m_2 = m_3$

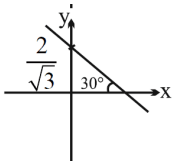
(D) $m_1 = m_2 > m_3$

Q7 If $\sqrt{3}y = -x + 2$, then which of the following curve represents relation between ' x ' and ' y ' correctly :-

(A)



(B)



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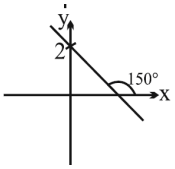

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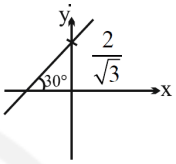
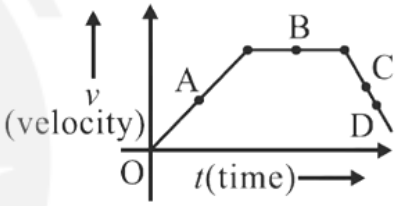


Q8 The slope of $v - t$ is zero at point:

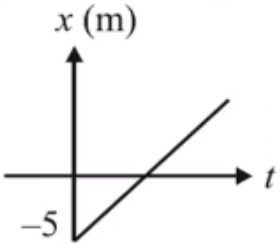


(A) A (B) B

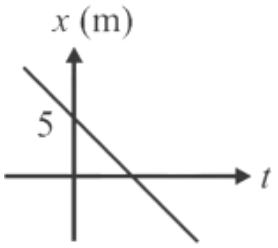
(C) C (D) D

Q9 A particle starts moving with constant, velocity $v = 2\ \mathrm{m/s}$. from position $x = 5\ \mathrm{m}$. Then position time graph will be

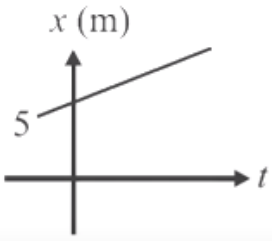
(A)



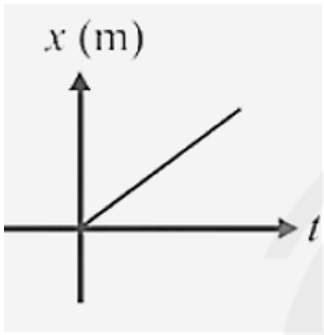
(B)



(C)

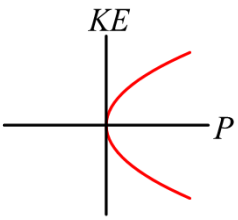


(D)

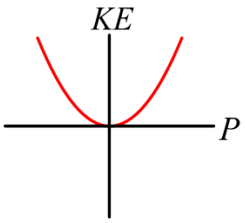


Q10 If $KE = \frac{P^2}{2m}$ then draw graph between *KE* and *P*.

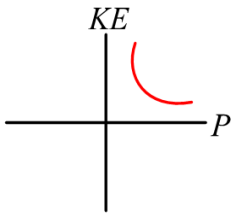
(A)



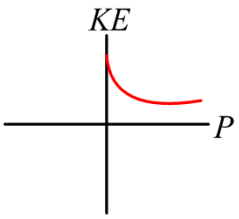
(B)



(C)



(D)



Answer Key

Q1	(A)	Q6	(B)
Q2	(C)	Q7	(B)
Q3	(C)	Q8	(B)
Q4	(A)	Q9	(C)
Q5	(C)	Q10	(B)