



DPP - 1

STRAIGHT LINE & QUADRATIC EQUATION

Q.1 If $ax^2 + bx + c = 0$, $a \neq 0$, then

(A) $x = -\frac{b \pm \sqrt{b^2 - 4ac}}{2}$

(B) $x = -\frac{b \pm \sqrt{b^2 - 4ac}}{4}$

(C) $x = -\frac{b \pm \sqrt{b^2 - 4ac}}{2a}$

(D) $x = -\frac{b \pm \sqrt{b^2 - 4ac}}{4a}$

Q.2 If $3x^2 + 8x + 5 = 0$, then

(A) $x = 1$

(B) $x = \frac{5}{3}$

(C) $x = -1$

(D) $x = -\frac{5}{3}$

Q.3 An equation of straight line $ay = bx + c$ is given, where a , b and c are constants. The slope of the given straight line is

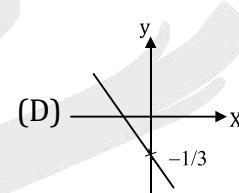
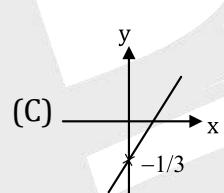
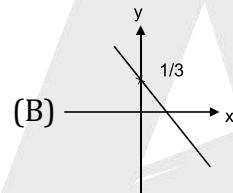
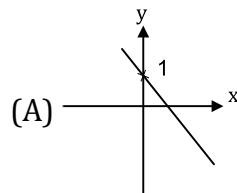
(A) $-\frac{a}{b}$

(B) $\frac{b}{a}$

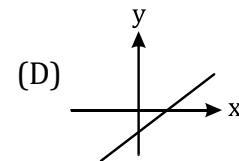
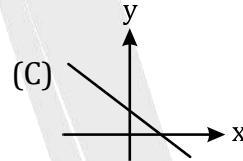
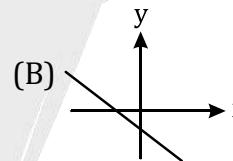
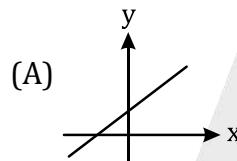
(C) b

(D) c

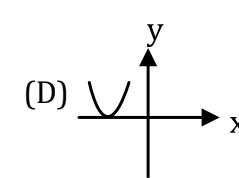
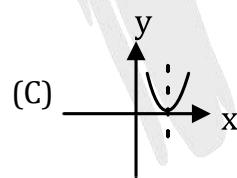
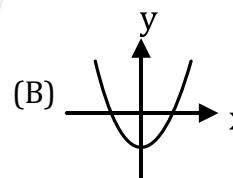
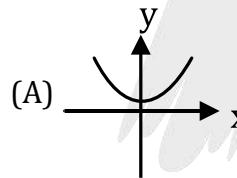
Q.4 Correct graph of $3x + 4y + 1 = 0$ is



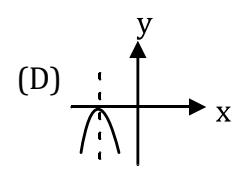
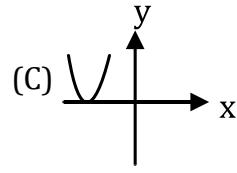
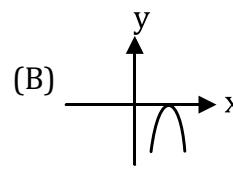
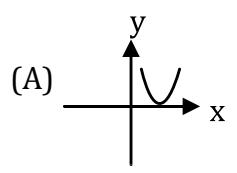
Q.5 graph of $y = 2x - 3$ is



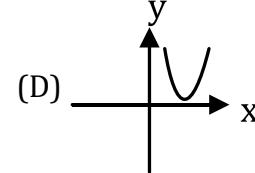
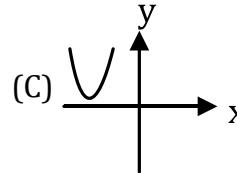
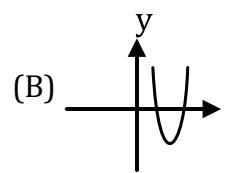
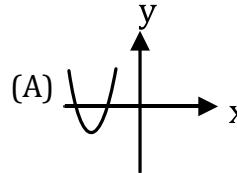
Q.6 Correct graph of $y - 1 = x^2$ is



Q.7 Correct graph of $y = -(x + 2)^2$ is



Q.8 Correct graph of $y = 2x^2 + 3x + 1$ is





Q.9 find velocity at $t = 4\text{sec}$

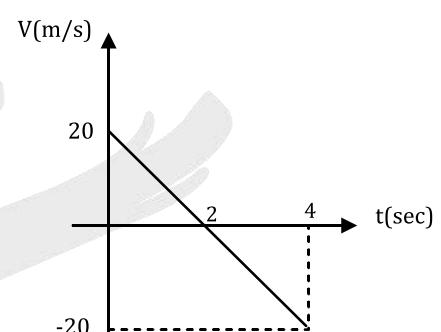
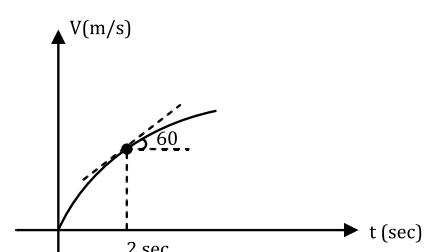
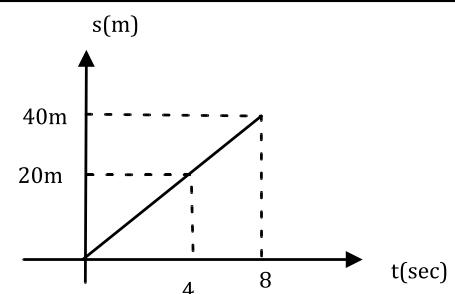
- (A) 5 m/s
- (B) -5 m/s
- (C) 0
- (D) N.O.T.

Q.10 find acceleration of Particle at $t = 2\text{sec}$.

- (A) $\frac{-1}{\sqrt{3}} \text{ m/s}^2$
- (B) $-\frac{1}{\sqrt{3}} \text{ m/s}^2$
- (C) $\sqrt{3} \text{ m/s}^2$
- (D) $-\sqrt{3} \text{ m/s}^2$

Q.11 find acceleration of particle at $t = 1\text{sec}$.

- (A) 10 m/s^2
- (B) -5 m/s^2
- (C) -10 m/s^2
- (D) N.O.T





ANSWER KEY

1. (C) 2. (C,D) 3. (B) 4. (D) 5. (D) 6. (A) 7. (D)
8. (A) 9. (A) 10. (C) 11. (C)

