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DPP - 3 (Basic Math)

Video Solution on Website:-

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

Video Solution on YouTube:-

https://youtu.be/gboSWA1HIuM

Written Solution on Website:-

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

- Distance between foci of ellipse $\frac{x^2}{25} + \frac{y^2}{9} = 1$ is Q 1.
 - (a) 9

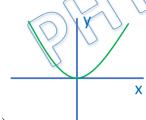
- (d) 8
- Q 2. Equation of parabola opening up passing through (3,4) and having vertex at origin is
 - (a) $x = \frac{4}{5}y^2$
- (b) $y = \frac{2}{3} x^2$
- (c) $y = \frac{4}{3} x^2$
- (d) $y = \frac{4}{3} x^2$

- Which of the following is an equation of circle: Q 3.
 - (a) $x^2 + y^2 = 2^2$
- (b) $x^2v + v^2 = 2^2$
- (c) xyz
- (d) None of these
- Which of the following is an equation of parabola: Q 4.
 - (a) $x^2 = 4ay$
- (b) $y^2 = 2^2 bx$
- (c) $x^2 = cy$
- (d) All of these

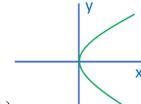
- Which of the following is an equation of ellipse: Q 5.
 - (a) $\frac{x^2}{a} + \frac{y^2}{b} = 1$ (b) $\frac{y^2}{a^2} + \frac{x^2}{b^2} = 1$
- (c) $\frac{x^2}{c^2}$
- (d) All of these
- Which of the following is not an equation of circle: O 6.
 - (a) $(x-2)^2 + (y-1)^2 = 2^2$
- (b) $(x + 2)^2 + (y 4)^2 = 4$

(d) None of these

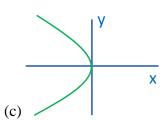
Curve of $Y = 3x^2$ can be: Q 7.



(a)



(b)



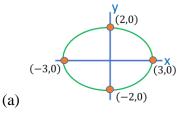
(d)

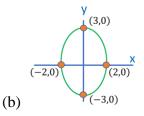
Curve of $\frac{x^2}{4} + \frac{y^2}{9} = 1$ is: Q 8.

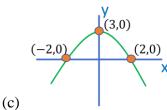


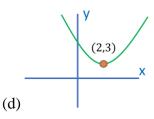
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- Find radius r and coordinate of centre C of the circle (x)Q 9.
 - (a) r = 2 unit, C(0,3)

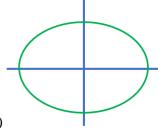
(b) r = 4 unit, C(3,0)

(c) r = 2 unit, C(3,0)

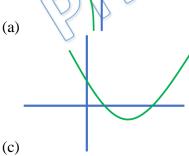
- (d) r = 2 unit, C(-3,0)
- Q 10. Which of the following is an equation of hyperbola:
 - (a) xy = 1

- (d) All of these
- Q 11. Equation of circle which has radius 4 unit and centre is C(-1,3):
 - (a) $(x-1)^2 + (y-3)^2$
- (b) $(x + 1)^2 + (y)^2$ $(-3)^2 = 16$
- (c) $(x+1)^2 + (y+3)$
- (d) None of these

Q 12. Curve of hyperbola is:

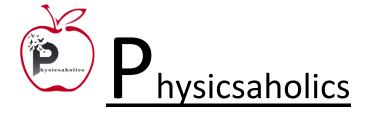


(a)



(b)

- (d) None of these
- Q 13. A particle is moving in such a way that sum of its distances from two fixed points always remains constant . Path of particle is
 - (a) circle
- (b) parabola
- (c) ellipse
- (d) hyperbola





Answer Key

Q.1 d	Q.2 d	Q.3 a	Q.4 d	Q.5 d
Q.6 d	Q.7 a	Q.8 b	Q.9 c	Q.10 d
Q.11 b	Q.12 a	Q.13 c		