



## DPP – 3 (Basic Math)

Video Solution on Website:-

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

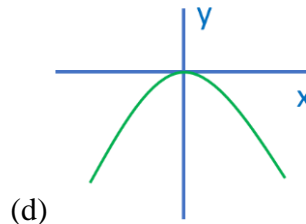
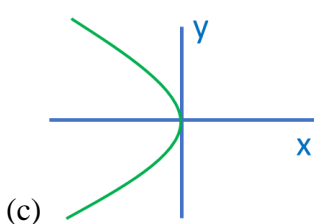
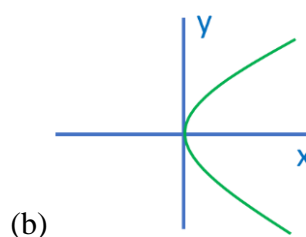
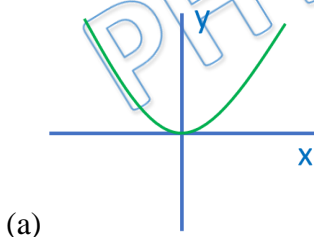
Video Solution on YouTube:-

<https://youtu.be/gboSWA1HIuM>

Written Solution on Website:-

<https://physicsaholics.com/note/notesDetails/70>

- Q 1. Distance between foci of ellipse  $\frac{x^2}{25} + \frac{y^2}{9} = 1$  is  
(a) 9 (b) 7 (c) 6 (d) 8
- Q 2. Equation of parabola opening up passing through (3,4) and having vertex at origin is  
(a)  $x = \frac{4}{9} y^2$  (b)  $y = \frac{2}{9} x^2$  (c)  $y = \frac{4}{3} x^2$  (d)  $y = \frac{4}{9} x^2$
- Q 3. Which of the following is an equation of circle:  
(a)  $x^2 + y^2 = 2^2$  (b)  $x^2y + y^2 = 2^2$  (c)  $xyz + y^2 = 2^2$  (d) None of these
- Q 4. Which of the following is an equation of parabola:  
(a)  $x^2 = 4ay$  (b)  $y^2 = 2^2bx$  (c)  $x^2 = cy$  (d) All of these
- Q 5. Which of the following is an equation of ellipse:  
(a)  $\frac{x^2}{a} + \frac{y^2}{b} = 1$  (b)  $\frac{y^2}{a^2} + \frac{x^2}{b^2} = 1$  (c)  $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$  (d) All of these
- Q 6. Which of the following is not an equation of circle:  
(a)  $(x - 2)^2 + (y - 1)^2 = 2^2$  (b)  $(x + 2)^2 + (y - 4)^2 = 4$   
(c)  $(x - 2)^2 + y^2 = 2^2$  (d) None of these
- Q 7. Curve of  $Y = 3x^2$  can be:



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





## Answer Key

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

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