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IIT JEE Physics DPP

DPP-3 Basic Maths: Geometry (Mathematical Curves)
By Physicsaholics Team



Q) Which of the following is an equation of circle:

(a)
$$x^2 + y^2 = 2^2$$

$$(c) xyz + y^2 = 2^2$$



(d) None of these

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Ans. a

Equation of circle (n-9) + (1-b) = 8 where; (a,b) contre e Y= gradius $x_1 + x_2 = 25$ is equation of cincle. with centere (0,0) and radius= 2 unit.



Q) Which of the following is an equation of parabola:

$$(a) x^2 = 4ay$$

(c)
$$x^2 = cy$$

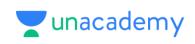
(b)
$$y^2 = 2^2 bx$$

(d) All of these

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Ans. d

Equation of Pagrabola y? - fax ruhener, da 14b aug n2 = 4b y constants] companie given equation with these standard (a) n2-4ay (Pasadola)) y = 22bx [4a= 22b? ~ call are equation of Danabola.



Q) Which of the following is an equation of ellipse:

(a)
$$\frac{x^2}{a} + \frac{y^2}{b} = 1$$

(c)
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

(b)
$$\frac{y^2}{a^2} + \frac{x^2}{b^2} = 1$$

(d) All of the above

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Ans. d

Ellipsel

all ane equation of Ellipse,



Q) Which of the following is not an equation of circle:

(a)
$$(x-2)^2 + (y-1)^2 = 2^2$$

(c) $(x-2)^2 + y^2 = 2^2$

(b)
$$(x+2)^2 + (y-4)^2 = 4$$

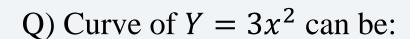
d) None of these

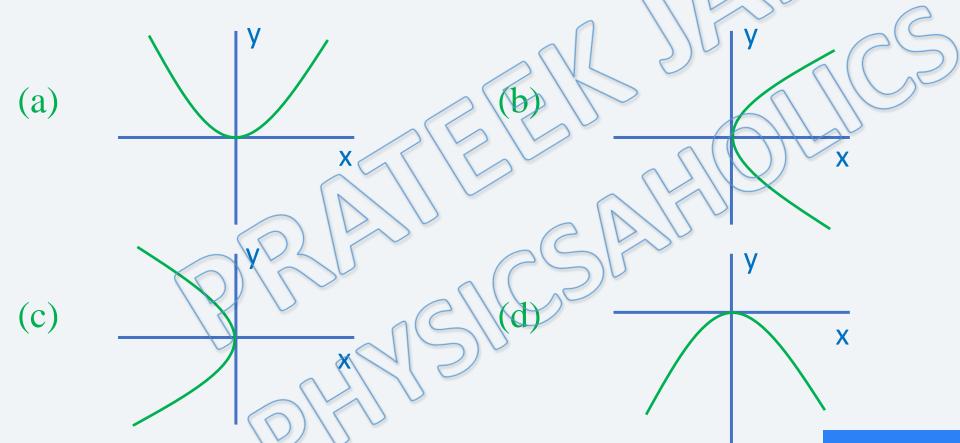
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Ans. d

Equation of circle $(u-a)_5 + (3-p)_5 = 85$ (a) (N-5)2 + (9-1)2= 22 contre C:(2,1); radius, 8= 2 unit $(m+2)^2 + (y-4)^2 = 4$ con c(-2,4), r= 2 unit C(2,0), 8=2 unit. ane equation of cincle.







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Ans. a

3-3×2 equation of passabola

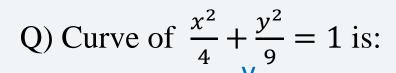


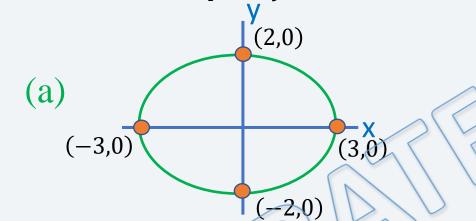
(b)

(-2,0)

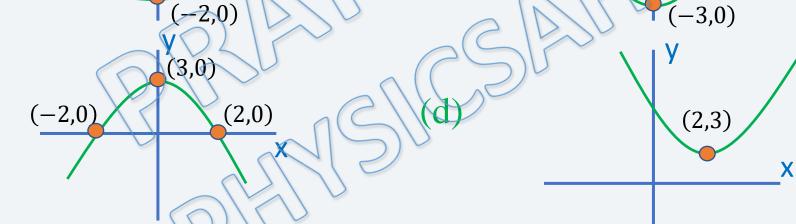
(3,0)

(2,0)



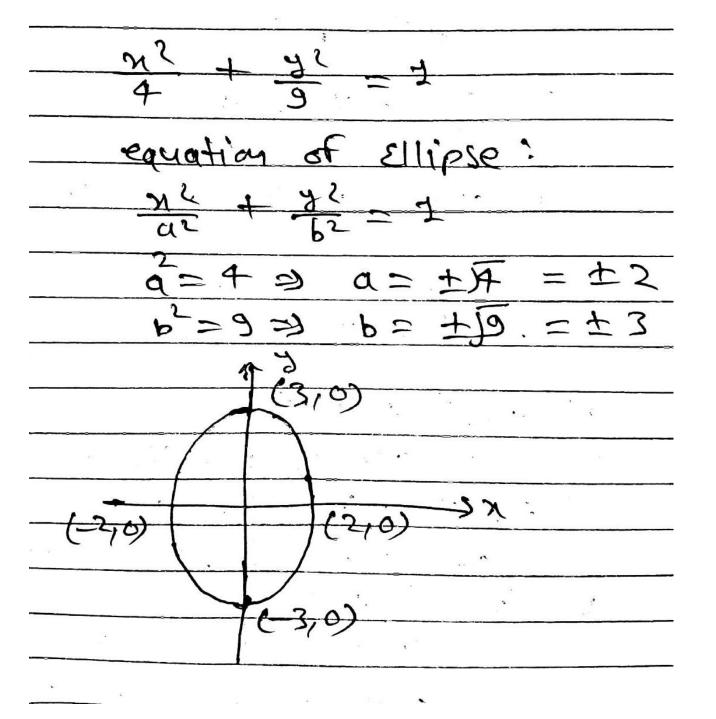






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Ans. b





Q) Find radius r and coordinate of centre C of the circle $(x-3)^2 + y^2 = 4$:

(a)
$$r = 2 \text{ unit, } C(0,3)$$

(c)
$$r = 2 \text{ unit}, C(3,0)$$

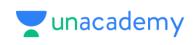
(b)
$$r = 4 \text{ unit, } C(3,0)$$

(d)
$$r = 2$$
 unit, $C(-3,0)$

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Ans. c

 $(x-3)^2 + y^2 = 4$ companie with standard equation of circle! $(n-9)^{2} + (3-3)^{2} = 8^{2}$ a = 3, b = 0, $b^2 = 4$ - . Contre: C(3,0) gradius: x= 2 Unit



Q) Which of the following is an equation of hyperbola:

(a)
$$xy = 1$$

(c)
$$\frac{y^2}{a} - \frac{x^2}{b} = 1$$

(b)
$$\frac{x^2}{a} - \frac{y^2}{b} = 1$$

(d) All of these

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Ans. d

Standard Equation of Hyperbola: Mysc and are equations of



Q) Equation of circle which has radius 4 unit and centre is C(-1,3):

(a)
$$(x-1)^2 + (y-3)^2 = 4^2$$

(c) $(x+1)^2 + (y+3)^2 = 4^2$

(b)
$$(x + 1)^2 + (y = 3)^2 = 16$$

(c)
$$(x + 1)^2 + (y + 3)^2 \neq 4^2$$

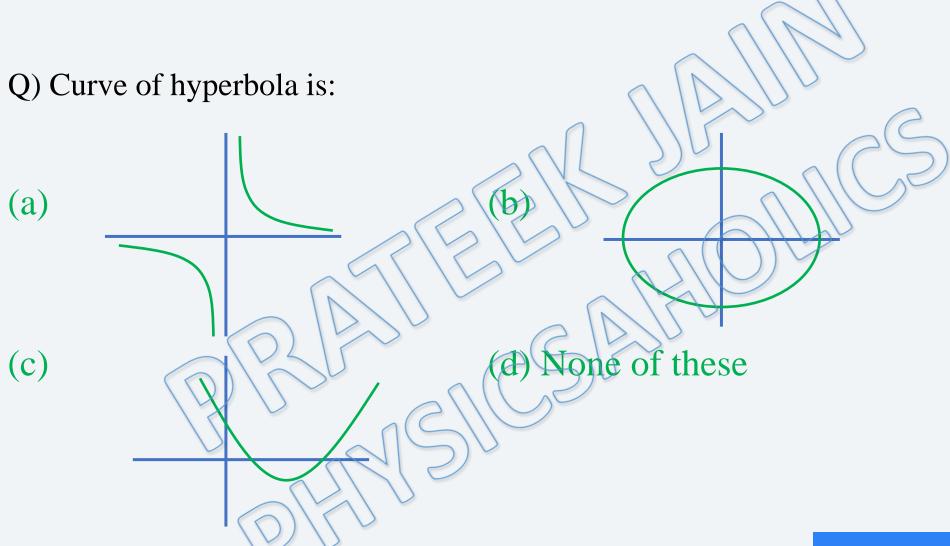
(d) None of these

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Ans. b

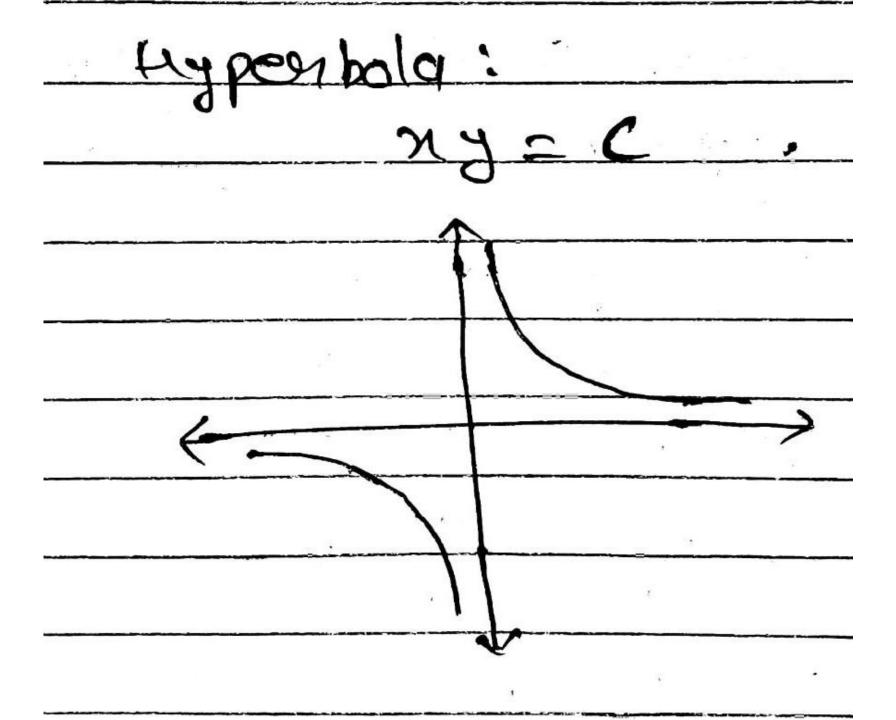
$$(n+1)^{2} + (y-3)^{2} = 16$$





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Ans. a



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