



Code Number:

A**Aakash****Medical | IIT-JEE | Foundations**

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Time: 3 hrs.

Mock Test Paper for Class-XII

Max. Marks: 75

MATHEMATICS**Paper - II(B)****Answers & Solutions**

- 1 Given centre
- $(h, k) = (1, 4)$

Radius $(r) = 5$

Equation of circle $(x - h)^2 + (y - k)^2 = r^2$

$$(x - 1)^2 + (y - 4)^2 = 5^2$$

$$x^2 + 1 - 2x + y^2 - 8y + 16 = 25$$

$$x^2 + y^2 - 2x - 8y + 17 - 25 = 0$$

$$x^2 + y^2 - 2x - 8y - 8 = 0$$

- 2 Given points
- $A(1, 3)$
- $B(2, k)$

Given circle $x^2 + y^2 = 35$

Given $A(1, 3)$ $B(2, k)$ are conjugate points

$$S_{12} = 0$$

$$x_1x_2 + y_1y_2 - 35 = 0$$

$$(1)(2) + 3(k) - 35 = 0$$

$$2 + 3k - 35 = 0$$

$$3k = 33$$

$$k = 11$$

- 3 Given circles

$$S = 2x^2 + 2y^2 + 3x + 6y - 5 = 0; S' = 3x^2 + 3y^2 - 7x + 8y - 11 = 0$$

$$S = x^2 + y^2 + \frac{3}{2}x + 3y - \frac{5}{2} = 0 = x^2 + y^2 - \frac{7}{3}x + \frac{8}{3}y - \frac{11}{3}$$

Radical axis is $S - S' = 0$

$$x^2 + y^2 + \frac{3}{2}x + 3y - \frac{5}{2} - \left(x^2 + y^2 - \frac{7}{3}x + \frac{8}{3}y - \frac{11}{3} \right) = 0$$

$$x^2 + y^2 + \frac{3}{2}x + 3y - \frac{5}{2} - x^2 - y^2 + \frac{7}{3}x - \frac{8}{3}y + \frac{11}{3} = 0$$

$$\left(\frac{3}{2} + \frac{7}{3}\right)x + \left(3 - \frac{8}{3}\right)y - \frac{5}{2} + \frac{11}{3} = 0$$

$$\left(\frac{9+14}{6}\right)x + \left(\frac{9-8}{3}\right)y + \left(\frac{-15+22}{6}\right) = 0$$

$$\frac{23x}{6} + \frac{y}{3} + \frac{7}{6} = 0$$

$$23x + 2y + 7 = 0$$

4 Let P (x_1 , y_1) be any point on the parabola

$$y^2 = 8x$$

$$4a = 8 \Rightarrow a = 2$$

Focal distance = 10

$$|x_1 + a| = 10$$

$$x_1 + 2 = 10 \Rightarrow x_1 = 8$$

$$\therefore y_1^2 = 8x_1 \Rightarrow y_1^2 = 8(8) \Rightarrow y_1 = \pm 8$$

Required points are (8, 8) & (8, -8)

5

$$\text{Given } e = \frac{5}{4}$$

$$\text{W.K.T } \frac{1}{e^2} + \frac{1}{e_1^2} = 1$$

$$\frac{1}{\left(\frac{25}{16}\right)} + \frac{1}{e_1^2} = 1$$

$$\frac{16}{25} + \frac{1}{e_1^2} = 1$$

$$\frac{1}{e_1^2} = 1 - \frac{16}{25}$$

$$\frac{1}{e_1^2} = \frac{25-16}{25}$$

$$\frac{1}{e_1^2} = \frac{9}{25} \Rightarrow \frac{1}{e_1} = \frac{3}{5}$$

Conjugate eccentricity = $\frac{5}{3}$

6

$$\int e^x \sin(e^x) dx$$

Put $e^x = t$

Diff. w.r.t to 'x'

$$e^x = \frac{dt}{dx} \Rightarrow e^x \cdot dx = dt$$

$$\int \sin(t) dt = -\cos t + c = -\cos(e^x) + c$$

7 $\int e^x (\sin x + \cos x) dx$

$$f(x) = \sin x; f'(x) = \cos x$$

$$\therefore \int e^x (f(x) + f'(x)) dx = e^x f(x) + c$$

$$= e^x \cdot \sin x + c$$

8 $\int_2^3 \frac{2x}{1+x^2} dx$

$$\therefore \int \frac{f'(x)}{f(x)} dx = \log|f(x)| + c$$

$$= [\log|1+x^2|]_2^3$$

$$= |\log 10 - \log 5|$$

$$= \log\left(\frac{10}{5}\right)$$

$$= \log 2$$

9 $\int_0^{\pi/2} \sin^7 x dx$

$$\therefore n \text{ is odd } \therefore n = 7$$

$$\frac{n-1}{n} \cdot \frac{n-3}{n-2} \cdot \frac{n-5}{n-4} \cdots \frac{2}{3}$$

$$= \frac{7-1}{7} \cdot \frac{7-3}{7-2} \cdot \frac{7-5}{7-4}$$

$$= \frac{6}{7} \cdot \frac{4}{5} \cdot \frac{2}{3} = \frac{16}{35}$$

10 Given $\frac{dy}{dx} = \frac{2y}{x}$

$$\frac{dy}{y} = 2 \cdot \frac{dx}{x}$$

$$\int \frac{1}{y} dy = 2 \int \frac{1}{x} dx$$

$$\log y = 2 \log x + \log c$$

$$\log y = \log x^2 + \log c$$

$$y = cx^2$$

11 Given line $x + y + 2 = 0$

$$\text{Given circle } x^2 + y^2 - 4x + 6y - 12 = 0$$

$$2g = -4; 2f = 6, c = -12$$

$$g = -2; f = 3$$

$$r^2 = g^2 + f^2 - c$$

$$= 4 + 9 + 12$$

$$= 25$$

$$\text{pole} = \left(-g + \frac{lr^2}{lg + mf - n}, -f + \frac{mr^2}{lg + mf - n} \right)$$

$$= \left(2 + \frac{1(25)}{1(-2) + 1(3) - 2}, -3 + \frac{1(25)}{1(-2) + 1(3) - 2} \right)$$

$$= \left(2 + \frac{25}{-1}, -3 + \frac{25}{-1} \right)$$

$$= (-23, -28)$$

12 Given circles

$$S = x^2 + y^2 + 2x + 2y + 1 = 0$$

$$S^1 = x^2 + y^2 + 4x + 3y + 2 = 0$$

$$\text{Equation of common chord } S - S^1 = 0$$

$$x^2 + y^2 + 2x + 2y + 1 - x^2 - y^2 - 4x - 3y - 2 = 0$$

$$-2x - y - 1 = 0$$

$$2x + y + 1 = 0$$

$$\text{Centre of the circle } S = 0$$

$$C_1 = (-1, -1)$$

$$\text{Radius } (r_1) = \sqrt{1 + x - x}$$

$$\boxed{r_1 = 1}$$

$d = \perp^{\text{er}}$ distance from C_1 to the line $2x + y + 1 = 0$

$$d = \frac{|2(-1) + 1(-1) + 1|}{\sqrt{2^2 + 1^2}} = \frac{|-2 - 1 + 1|}{\sqrt{5}} = \frac{2}{\sqrt{5}}$$

$$\text{Length of common chord } AB = 2\sqrt{r^2 - d^2}$$

$$= 2\sqrt{1^2 - \left(\frac{2}{\sqrt{5}}\right)^2} = 2\sqrt{1 - \frac{4}{5}} = 2\sqrt{\frac{5-4}{5}}$$

$$\boxed{AB = 2\sqrt{\frac{1}{5}}}$$

13 Given ellipse $9x^2 + 16y^2 = 144$

$$\frac{x^2}{16} + \frac{y^2}{9} = 1$$

$$a^2 = 16, b^2 = 9, a > b$$

(i) center $(h, k) = (0, 0)$

$$(ii) \text{ Eccentricity } (e) = \sqrt{\frac{a^2 - b^2}{a^2}} = \sqrt{\frac{16 - 9}{16}} = \frac{\sqrt{7}}{4}$$

$$(iii) \text{ Vertices} = (h \pm a, k) = (\pm 4, 0)$$

$$(iv) \text{ foci} = (h \pm ae, k) = \left(0 \pm 4 \frac{\sqrt{7}}{4}, 0\right) = (\pm\sqrt{7}, 0)$$

$$(v) \text{ Length of major axis} = 2a = 2(4) = 8$$

$$(vi) \text{ length of minor axis} = 2(b) = 2(3) = 6$$

$$(vii) \text{ length of latus rectum} = \frac{2b^2}{a} = \frac{2(4)}{4} = \frac{9}{2}$$

$$(viii) \text{ equation of the directrices are } x = h \pm \frac{a}{e}$$

$$x = 0 \pm \frac{4(4)}{\sqrt{7}}$$

$$\sqrt{7}x = \pm 16$$

15 Given hyperbola $3x^2 - 4y^2 = 12$

$$\frac{3x^2}{12} - \frac{4y^2}{12} = 1$$

$$\frac{x^2}{4} - \frac{y^2}{3} = 1 \quad a^2 = 4; b^2 = 3$$

Given line $y = x - 7 \Rightarrow$ slope $m = 1$

(i) parallel slope = 1 (ii) perpendicular slope = -1

Equation of tangent is equation tangent

$$y = mx \pm \sqrt{a^2m^2 - b^2} \quad y = mx \pm \sqrt{a^2m^2 - b^2}$$

$$y = (1)x \pm \sqrt{4(1) - 3} \quad = (-1)x \pm \sqrt{4(1) - 3}$$

$$= x \pm \sqrt{1} \quad y = -x \pm 1$$

$$y = x \pm 1 \quad x + y \pm 1 = 0$$

$$x - y \pm 1$$

16

$$\text{Let } I = \int_0^{\pi/2} \frac{\sin^5 x}{\sin^5 x + \cos^5 x} dx \text{ ---(1)}$$

$$\therefore \int_0^a f(x) dx = \int_0^a f(a-x) dx$$

$$I = \int_0^{\pi/2} \frac{\sin^5\left(\frac{\pi}{2} - x\right)}{\sin^5\left(\frac{\pi}{2} - x\right) + \cos^5\left(\frac{\pi}{2} - x\right)} dx$$

$$= \int_0^{\pi/2} \frac{\cos^5(x)}{\cos^5 x + \sin^5 x} dx \text{ ----(2)}$$

$$(1) + (2)$$

$$I + I = \int_0^{\pi/2} \frac{\sin^5 x + \cos^5 x}{\sin^5 x + \cos^5 x} dx$$

$$2I = \int_0^{\pi/2} dx$$

$$2I = [x]_0^{\pi/2} = \frac{\pi}{2} - 0$$

$$I = \frac{\pi}{4}$$

17

Given $\frac{dy}{dx} + y \tan x = \cos^2 x$

It is a linear equation in 'y'

$P = \tan x$; $Q = \cos^2 x$

$I.F = e^{\int P dx} = e^{\int \tan x} = e^{\log |\sec x|} = \sec x$

General solution is $y (I.F) = \int Q.(I.F) dx + C$

$$y \sec x = \int \cos^2 x \cdot \sec x dx + c$$

$$= \int \cos^2 \frac{1}{\cos x} dx + c$$

$$= \int \cos x dx + c = \sin x + C$$

18

Given points A(2, 0), B(0, 1), C(4,5), D(0, C)

Required circle equation

$$x^2 + y^2 + 2gx + 2fy + c = 0 \text{ ----(1)}$$

equation (1) passing through at A(2,0)

$$4 + 0 + 4g + 0 + c = 0$$

$$4g + c + 4 = 0 \text{ ----(2)}$$

Equation (1) passing through at B(0, 1)

$$0 + 1 + 0 + 2f + c = 0$$

$$2f + c + 1 = 0 \text{ ----(3)}$$

Equation (1) passing through at c(4, 5)

$$16 + 25 + 8g + 10f + c = 0$$

$$8g + 10f + c + 41 = 0 \text{ ---- (4)}$$

Solving (2) & (3)

$$4g + 0 + c + 4 = 0$$

$$0 + 2f + c + 1 = 0$$

$$\underline{\quad - \quad - \quad - \quad}$$

$$4g - 2f + 3 = 0 \text{ ---(5)}$$

Solving (3) & (4)

$$0 + 2f + c + 1 = 0$$

$$8g + 10f + c + 41 = 0$$

$$\underline{\quad - \quad - \quad - \quad}$$

$$-8g - 8f - 40 = 0$$

$$g + f + 5 = 0 \text{ ---- (6)}$$

solving (5) & (6)

$$\begin{array}{cccc} g & f & 1 & \\ -2 & 3 & 4 & -2 \\ 1 & 5 & 1 & 1 \end{array}$$

$$\frac{g}{-10-3} = -\frac{f}{3-20} = \frac{1}{4+2}$$

$$\frac{g}{-13} = \frac{f}{-17} = \frac{1}{6}$$

$$\boxed{g = -\frac{13}{6}; f = -\frac{17}{6}}$$

'g' value sub in (2)

$$4\left(-\frac{13}{6}\right) + c + 4 = 0$$

$$-\frac{26}{3} + 4 + c = 0$$

$$c = -4 + \frac{26}{3}$$

$$\boxed{c = -\frac{12+26}{3} = \frac{14}{3}}$$

G, f, c, values sub in (1)

$$x^2 + y^2 + 2\left(-\frac{13}{6}\right)x + 2\left(-\frac{17}{6}\right)y + \frac{14}{3} = 0$$

$$3(x^2 + y^2) - 13x - 17y + 14 = 0 \text{ ---- (7)}$$

(0, c) passing through in above equation

$$3(0 + c^2) - 13(0) - 17c + 14 = 0$$

$$3c^2 - 17c + 14 = 0$$

$$3c^2 - 14c - 3c + 14 = 0$$

$$c(3c - 14) - 1(3c - 14) = 0$$

$$(3c - 1)(c - 1) = 0$$

$$3c - 14 = 0; c - 1 = 0$$

$$\boxed{c = \frac{14}{3}; c = 1}$$

19 Given circles

$$S = x^2 + y^2 - 4x - 6y - 12 = 0; S' = x^2 + y^2 + 6x + 18y + 26 = 0$$

Compare with $x^2 + y^2 + 2gx + 2fy + c = 0$

$$2g = -4; 2f = -6; c = -12$$

$$g = -2; f = -3$$

$$\text{centre } (c_1) = (2, 3)$$

$$\text{radius } (r_1) = \sqrt{(-2)^2 + (-3)^2 + 12} = \sqrt{4+9+12} = \sqrt{25} = 5$$

$$2g' = 6; 2f' = 18; c' = 26$$

$$g' = 3; f' = 9$$

$$\text{center } (c_2) = (-3, -9)$$

$$\text{radius } (r_2) = \sqrt{9 + 81 - 26}$$

$$= \sqrt{90 - 26}$$

$$= \sqrt{64}$$

$$\boxed{r_2 = 8}$$

Distance between centers (C_1C_2)

$$C_1C_2 = \sqrt{(2+3)^2 + (3+9)^2}$$

$$= \sqrt{25 + 144}$$

$$= \sqrt{169}$$

$$\boxed{C_1C_2 = 13} \quad r_1 + r_2 = 8 + 5 = 13$$

$$\boxed{C_1C_2 = r_1 + r_2}$$

Given two circles touch each other externally. The point of contact divides C_1C_2 in the ratio $r_1 : r_2$ internally

$$p = \left(\frac{5(-3) + 8(2)}{5+8}, \frac{5(-9) + 8(3)}{5+8} \right) = \left(\frac{-15 + 16}{13}, \frac{-45 + 24}{13} \right) = \left(\frac{1}{13}, \frac{-21}{13} \right)$$

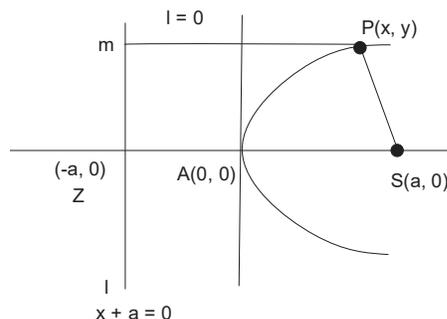
Equation common tangent $S - S' = 0$

$$x^2 + y^2 - 4x - 6y - 12 - x^2 - y^2 - 6x - 18y - 26 = 0$$

$$-10x - 24y - 38 = 0$$

$$5x + 12y + 19 = 0$$

- 20
- Let 'S' be the focus and 'l' be the directrix of parabola.
 - Let Z be the projection of 'S' on l.
 - A be the mid point of ZS



$$AS = AZ = a$$

$$A(0, 0), S(a, 0) Z(-a, 0)$$

$$\text{Equation of directrix } (l) = x + a = 0$$

Let $P(x_1, y)$ be any point on the parabola

$$\frac{SP}{PM} = 1$$

$$SP = PM$$

SP = perpendicular distance from 'p' to directrix.

$$\sqrt{(x-a)^2 + y^2} = \frac{|x+a|}{\sqrt{1^2 + 0^2}}$$

S.O.B.S

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

$$x^2 + a^2 - 2ax + y^2 = x^2 + a^2 + 2ax$$

$$\boxed{y^2 = 4ax}$$

$\therefore y^2 = 4ax$ is the standard form of parabola.

21

$$\int \frac{x+1}{x^2+3x+12} dx$$

$$px+q = A \frac{d}{dx}(ax^2+bx+c) + B$$

$$x+1 = A \frac{d}{dx}(x^2+3x+12) + B$$

$$x+1 = A(2x+3) + B$$

Comparing coeff. Of x & constant

$$2A = 1 \quad 3A + B = 1$$

$$\boxed{A = \frac{1}{2}} \quad 3\left(\frac{1}{2}\right) + B = 1$$

$$B = 1 - \frac{3}{2}$$

$$\boxed{B = -\frac{1}{2}}$$

$$x+1 = \frac{1}{2}(2x+3) - \frac{1}{2}$$

$$\int \frac{x+1}{x^2+3x+12} dx = \int \frac{\frac{1}{2}(2x+3) - \frac{1}{2}}{x^2+3x+12} dx$$

$$= \frac{1}{2} \int \frac{2x+3}{x^2+3x+12} dx - \frac{1}{2} \int \frac{1}{x^2+3x+12} dx \quad \because \int \frac{f'(x)}{f(x)} = \log|f(x)| + c$$

$$= \frac{1}{2} \log|x^2+3x+12| - \frac{1}{2} \int \frac{dx}{x^2 + 2x\left(\frac{3}{2}\right) + \left(\frac{3}{2}\right)^2 - \left(\frac{3}{2}\right)^2 + 12}$$

$$= \frac{1}{2} \log|x^2+3x+12| - \frac{1}{2} \int \frac{1}{\left(x+\frac{3}{2}\right)^2 - \left(\frac{9}{4}\right) + 12} dx$$

$$\begin{aligned}
&= \frac{1}{2} \log|x^2 + 3x + 12| - \frac{1}{2} \int \frac{1}{\left(x + \frac{3}{2}\right)^2 + \frac{39}{4}} dx \\
&= \frac{1}{2} \log|x^2 + 3x + 12| - \frac{1}{2} \int \frac{1}{\left(x + \frac{3}{2}\right)^2 + \left(\frac{\sqrt{39}}{2}\right)^2} dx \quad \left(\because \int \frac{1}{x^2 + a^2} dx = \frac{1}{a} \operatorname{Tan}^{-1}\left(\frac{x}{a}\right)\right) \\
&= \frac{1}{2} \log|x^2 + 3x + 12| - \frac{1}{2} \cdot \frac{1}{\left(\frac{\sqrt{39}}{2}\right)} \cdot \operatorname{Tan}^{-1}\left(\frac{x + \frac{3}{2}}{\frac{\sqrt{39}}{2}}\right) \\
&= \frac{1}{2} \log|x^2 + 3x + 12| - \frac{1}{\sqrt{39}} \cdot \operatorname{Tan}^{-1}\left(\frac{2x + 3}{\sqrt{39}}\right) + C
\end{aligned}$$

22

$$I_n = \int \sin^n x dx$$

$$\int \sin^{n-1} x \cdot \sin x dx$$

$$\begin{array}{cc}
\text{---} & \text{---} \\
\text{U} & \text{V}
\end{array}$$

$$\therefore \int Uv dx = U \int v dx - \int \left[\frac{d}{dx}(U) \cdot \int V dx \right] dx$$

$$\begin{aligned}
&= \sin^{n-1} x \cdot \int \sin x dx - \int \left[\frac{d}{dx}(\sin^{n-1} x) \cdot \int \sin x dx \right] dx \\
&= \sin^{n-1} x \cdot (-\cos x) - \int [(n-1) \sin^{n-2} x (\cos x) (-\cos x)] dx \\
&= -\cos x \sin^{n-1} x + \int [(n-1) \sin^{n-2} x \cdot \cos^2 x] dx \\
&= -\cos x \sin^{n-1} x + \int [(n-1) \sin^{n-2} x \cdot (1 - \sin^2 x)] dx \\
&= -\cos x \sin^{n-1} x + (n-1) \int \sin^{n-2} x dx - (n-1) \int \sin^n x dx
\end{aligned}$$

$$I_n = -\cos x \sin^{n-1} x + (n-1) I_{n-2} - (n-1) I_n$$

$$I_n + (n-1) I_n = -\cos x \sin^{n-1} x + (n-1) I_{n-2}$$

$$I_n (1+n-1) = -\cos x \sin^{n-1} x + (n-1) I_{n-2}$$

$$I_n = \frac{-\cos x \sin^{n-1} x}{n} + \left(\frac{n-1}{n}\right) I_{n-2}$$

$$\begin{aligned}
\text{Now } I_4 &= \int \sin^4 x dx = \frac{-\cos x \sin^3 x}{4} + \frac{3}{4} I_2 \\
&= \frac{-\cos x \sin^3 x}{4} + \frac{3}{4} \left(-\frac{\sin x \cos x}{2} + \frac{1}{2} I_0 \right) \\
&= \frac{-\sin^3 x \cos x}{4} - \frac{3}{8} \sin x \cos x + \frac{3}{8} (x) + C
\end{aligned}$$

23

$$\int_0^{\frac{\pi}{4}} \frac{\sin x + \cos x}{9 + 16 \sin 2x} dx = \frac{1}{20} \log 3$$

Let $\sin x - \cos x = t$

Diff. w.r.to 't'

$$(\cos x + \sin x) dx = dt$$

$$\sin x - \cos x = t$$

$$\text{Also } (\sin x - \cos x)^2 = t^2$$

$$\sin^2 x + \cos^2 x - 2 \sin x \cos x = t^2$$

$$1 - \sin 2x = t^2$$

$$1 - t^2 = \sin 2x$$

$$\text{U.L. } x = \frac{\pi}{4} \Rightarrow t = \sin \frac{\pi}{4} - \cos \frac{\pi}{4} = 0$$

$$\text{L.L. } x = 0 \Rightarrow t = \sin 0 - \cos 0 = -1$$

$$\text{LHS} = \int_{-1}^0 \frac{dt}{9 + 16(1-t^2)}$$

$$= \int_{-1}^0 \frac{dt}{25 - 16t^2} = \int_{-1}^0 \frac{dt}{5^2 - (4t)^2} \left(\because \int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \log \left| \frac{a+x}{a-x} + c \right| \right)$$

$$= \frac{1}{2(5)} \left[\log \left| \frac{5+4t}{5-4t} \right| \right]_{-1}^0 = \frac{1}{40} \left[\log \left(\frac{5}{5} \right) - \log \left(\frac{5-4}{5+4} \right) \right]^{-1}$$

$$= \frac{1}{40} \left[\log(1) - \log \left(\frac{1}{9} \right) \right] = \frac{1}{40} [0 - (\log 1 - \log 9)]$$

$$= \frac{1}{40} [\log 9] = \frac{1}{40} [\log 3^2] = \frac{1}{40} 2 \log 3 = \frac{1}{20} \log 3$$

24

$$(x^2 + y^2) dx = 2xy dy$$

$$\frac{dy}{dx} = \frac{x^2 + y^2}{2xy}$$

Which is a homogeneous equation

$$v + x \cdot \frac{dv}{dx} = \frac{x^2 + v^2 x^2}{2x(vx)} \quad \left(\begin{array}{l} \text{put } y = vx \\ \frac{dy}{dx} = v + x \frac{dv}{dx} \end{array} \right)$$

$$x \cdot \frac{dv}{dx} = \frac{1+v^2}{2v} - v$$

$$x \cdot \frac{dv}{dx} = \frac{1+v^2 - 2v^2}{2v}$$

$$\int \frac{2v}{1-v^2} dv = \int \frac{dx}{x}$$

$$-\log(1-v^2) = \log x + \log c$$

$$\log x + \log(1-v^2) = \log c$$

$$\log[x(1-v^2)] = \log c$$

$$(\because -\log c = \log c)$$

$$x(1-v^2) = c \quad \left(\because \text{where } v = \frac{y}{x} \right)$$

$$x \left(1 - \frac{y^2}{x^2} \right) = c$$

$$x^2 - y^2 = cx$$



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