

Po 168 #59

Points on
$$x^2y^2 + xy = 2$$

Where slope of tangent line is -1 .

$$\frac{\partial}{\partial x}(y) = \frac{\partial y}{\partial x}$$

$$\frac{\partial}{\partial x}\left[x^2y^2\right] + \frac{\partial}{\partial x}\left[x^2y\right] = \frac{\partial}{\partial x}\left[2\right]$$

$$\frac{\partial}{\partial x}\left[(xy)^2\right] + \frac{\partial}{\partial x}x + \frac{\partial}{\partial x} = 0$$

$$2xy(xy) + x\frac{\partial y}{\partial x} + (y + x\frac{\partial y}{\partial x}) = 0$$

$$2xy(y + x\frac{\partial y}{\partial x}) + (y + x\frac{\partial y}{\partial x}) = 0$$

$$2xy(y + x\frac{\partial y}{\partial x}) + (y + x\frac{\partial y}{\partial x}) = 0$$

$$y + x\frac{\partial y}{\partial x} = 0$$

$$x^2y^2 + xy = 2$$

$$x^4 + x^2 = 2$$

$$x^4 + x^2 - 2 = 0$$

$$x^4 + x^2 - 2 = 0$$

$$x^2 - 1(x^2 + 2) = 0$$

$$y (os \times = \times^{2} + y^{2})$$

$$\frac{1}{3x}(y \cos x) = \frac{1}{3x}(x^{2}) + \frac{1}{3x}(y^{2})$$

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

$$\frac{1}{3x}\cos x - 2y \frac{1}{3x} = 2x + y \sin x$$

$$\frac{1}{3x} = \frac{2x + y \sin x}{\cos x - 2y}$$

$$R \text{ to feat resistance}$$

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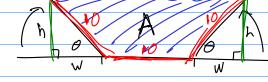
$$R \text{$$

$$\frac{\partial R}{\partial t} = \left(\frac{0.3}{80^2} + \frac{0.2}{100^2}\right) \left(\frac{400^2}{9^2}\right)$$

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A for Max amount of water?

#76



Amount of ?

$$A(\theta) = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 10 & 1 & 1 & 1 \\ 10 & 1 & 1 & 1 \end{bmatrix}$$

tanf= h sinf= h cosf= h cosf= w

$$(10+2w)h - wh$$

$$10h + 2wh - wh$$

$$10h + wh$$

$$A(\theta) = (10+w)h$$

h= 10 sin D

$$A(t) = (10 + 10 \cos \theta) 10 \sin \theta$$

W= 10 cos A