



$$\cos\theta = \frac{\chi}{1}$$
  $\sin\theta = \frac{y}{1}$   
 $\chi = \cos\theta$   $y = \sin\theta$ 

$$A = \frac{(a+b)h}{2}$$

$$= \left[\frac{1+(1+2x)}{3}\right] \cdot A = \left(\frac{1+(ost)(sin\theta)}{4\theta} + \frac{(1+(ost)(cos\theta))}{4\theta}\right)$$

$$= (1+x)y$$

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$$= -(1-cos^2\theta) + cos\theta + cos^2\theta$$

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$$= 2cos^2\theta + cos\theta - 1$$

$$= (2y-2)(2y+1)$$

$$= (2cos\theta - 1)(cos\theta + 1)$$

$$= (2y-1)(2y+1)$$

$$= \frac{dA}{d\theta} = 0 \quad cos\theta = \frac{1}{2}, cos\theta = -1$$

$$\theta = 60^{\circ} \quad \theta = 180^{\circ}$$

Thus max area occurs when 0=60°.

$$y = A \cos xt + B \sin xt$$

$$y'' = -A K \sin xt + B K \cos xt$$

$$y''' = -A K^{2} \cos xt - B K^{2} \sin xt$$

$$y''' + K^{2} y = 0$$

$$y'''' + K^{2} y = 0$$

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