

Mr + Mrs A. L. Nelson ~~respectfully~~ ^{request} invite
you to be present at the marriage of their daughter
Bessie Moore to ^{Mr A W James} at the Chapel of
Washington & Lee University July 5th 1880 at
9 P.M. and to attend their silver
wedding at home from 9 $\frac{1}{4}$ to 11 the
same evening.

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$$\text{Let } x = x \cos \alpha - y \sin \alpha, \quad y = x \sin \alpha + y \cos \alpha$$

$$\alpha = 45^\circ \quad \cos \alpha = \sin \alpha = \frac{1}{\sqrt{2}} \quad x^2 = \left(\frac{x}{\sqrt{2}} - \frac{y}{\sqrt{2}}\right)^2 \quad y^2 = \left(\frac{x}{\sqrt{2}} + \frac{y}{\sqrt{2}}\right)^2$$

$$\left(\frac{x}{\sqrt{2}} + \frac{y}{\sqrt{2}}\right)^2 + \left(\frac{x}{\sqrt{2}} - \frac{y}{\sqrt{2}}\right)\left(\frac{x}{\sqrt{2}} + \frac{y}{\sqrt{2}}\right) + \left(\frac{x}{\sqrt{2}} - \frac{y}{\sqrt{2}}\right)^2 - \frac{16}{3} = 0$$

$$\frac{x^2}{2} + \frac{2xy}{2} + \frac{y^2}{2} + \frac{x^2}{2} - \frac{xy}{2} + \frac{x^2}{2} - \frac{2xy}{2} + \frac{y^2}{2} - \frac{16}{3} = 0$$

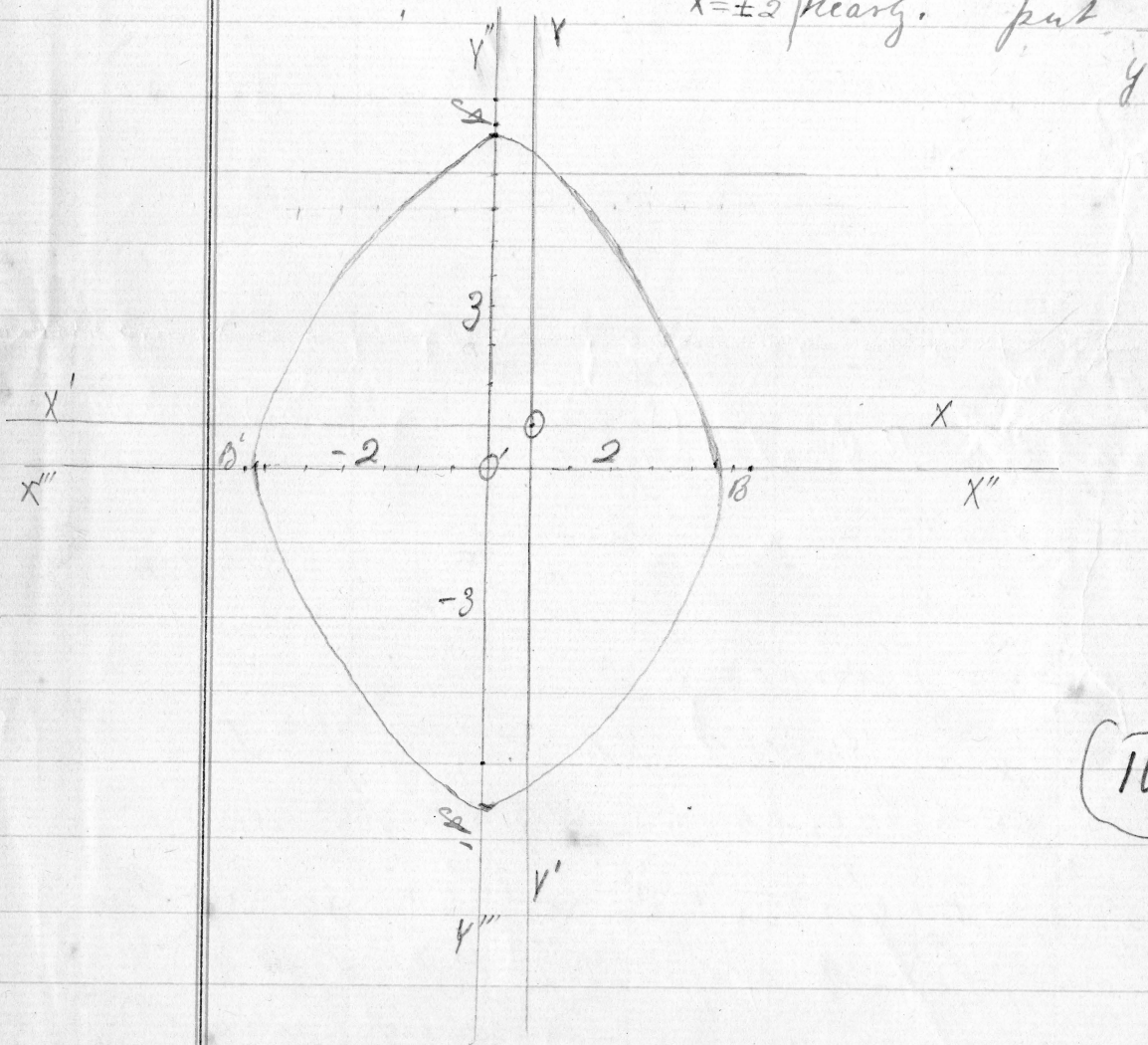
$$\frac{3x^2}{2} + \frac{y^2}{2} - \frac{16}{3} = 0 \quad \text{or} \quad 9x^2 + 3y^2 = 32$$

$$\text{To construct, put } y=0 \quad 9x^2 = 32 \quad x^2 = \frac{32}{9} \Rightarrow x = \pm \frac{4}{3}\sqrt{2}$$

$$x = \pm 2 \text{ nearly.}$$

$$\text{put } x=0$$

$$y = \pm 3 \text{ nearly.}$$



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