

9 November

- (a) $3/5$.
(b) $(1, 0)$.
- Maxima at $(\pm 3, 0)$ and minima at $(0, \pm 3)$.
- $1/2$.
- What a stupid question. The center of mass is obviously not $(2, 1)$. We compute the mass of the lamina to be $m = 32$ and the moments $M_y = 64$ and $M_x = \frac{256}{3}$ so that $(\bar{x}, \bar{y}) = (2, \frac{8}{3})$.
- $\int_0^2 \int_{\frac{3}{2}y}^{\frac{3}{\sqrt{2}}\sqrt{y}} dx dy$.
- Not covered
- Not covered