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SOLUTION. Length and Moment Arm: The length of the differential element is  $dL = 2 \, dx \sqrt{2 + dy^2} = 2 \, dx \sqrt{1 + a^2} = 2 \, dx \sqrt{2}$  and its centroid is  $\bar{y} = x \sqrt{2}$ . Here,  $dy = 2 \, x$ . Centroid: Due to symmetry  $\bar{x} = 0$ . Ans. Applying Eq. 9/7 and performing the integration, we have  $\bar{y} = \frac{1}{L} \int y \, dL = \frac{1}{L} \int_0^L x \sqrt{2} \, dx = \frac{\sqrt{2}}{L} \left[ \frac{1}{2} x^2 \right]_0^L = \frac{\sqrt{2}}{L} \cdot \frac{1}{2} L^2 = \frac{\sqrt{2}}{2} L = \frac{1}{2} L = 2 \, \text{ft}$ ;  $\bar{x} = \frac{1}{L} \int x \, dL = \frac{1}{L} \int_0^L x \sqrt{2} \, dx = \frac{\sqrt{2}}{L} \left[ \frac{1}{2} x^2 \right]_0^L = \frac{\sqrt{2}}{L} \cdot \frac{1}{2} L^2 = \frac{\sqrt{2}}{2} L = \frac{1}{2} L = 2 \, \text{ft}$ ;  $\bar{y} = 2 \, \text{ft}$ ;  $\bar{x} = 2 \, \text{ft}$

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