

**Unit 5 HW (Centroids)**  
**MultiV 2021-22 / Dr. Kessner**

Find the centroids of the following curves or regions.

1. The line segment from  $(1, 1)$  to  $(3, 3)$ .
2. The circle (curve) with radius 1, center  $(1, 0)$ .
4. The disk (region) with radius 1, center  $(1, 0)$ .
3. The unit upper semicircle (curve).
5. The unit upper semidisk (the region inside the unit upper semicircle).
6. The rectangular region  $\{(x, y) \mid 1 \leq x \leq 5, 1 \leq y \leq 7\}$ .