1.(1 pt) The masses m_i are located at the points P_i. Find the center of mass of the system.
$m_1 = 1, m_2 = 5, m_3 = 3$.
$P_1 = (-8,-4), P_2 = (-9,7), P_3 = (8,-1)$.
$\bar{x}$= _____
$\bar{y}$= _____

2.(1 pt) Find the centroid $(\bar{x},\bar{y})$ of the triangle with vertices at $(0,0)$, $(7,0)$, and $(0,6)$.
$\bar{x}$= _____
$\bar{y}$= _____

3.(1 pt) Find the centroid $(\bar{x},\bar{y})$ of the region bounded by:

$$y = 2x^2 + 9x, \quad y = 0, \quad x = 0, \quad \text{and} \quad x = 8$$

.
$\bar{x}$= _____
$\bar{y}$= _____