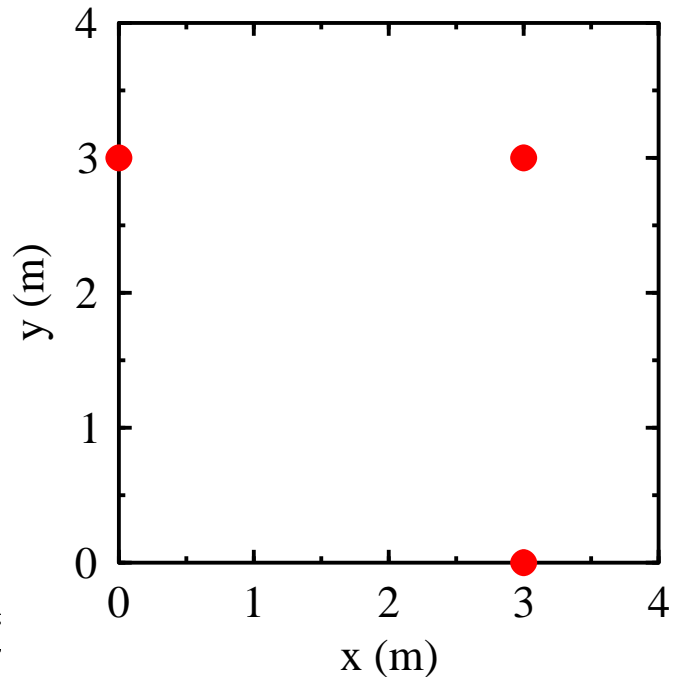


Ex : Find the center-of-mass coordinates of the 3 mass system shown.



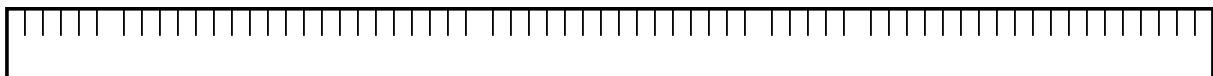
$$m_1 = 2.0 \text{ kg} \quad \vec{r}_1 = 3 \text{ m } \hat{i}$$

$$m_2 = 4.0 \text{ kg} \quad \vec{r}_2 = 3 \text{ m } \hat{i} + 3 \text{ m } \hat{j}$$

$$m_3 = 2.0 \text{ kg} \quad \vec{r}_3 = 3 \text{ m } \hat{j}$$

Ex : Continuous mass distribution

Find the X center-of-mass coordinate for a 0.5 kg meter stick.



Ex : Example in 2-D

Find the center-of-mass coordinates of the following plate.
Assume constant density.

