AP# 5- Dinâmica de sistema de partículas.

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$$X_{CM} = \frac{\sum_{i=1}^{m_{i}} x_{i}}{\sum_{i=1}^{m_{i}} x_{i}} = \frac{1 \times 0 + 2 \times \frac{1}{2} \alpha + 3 \times \alpha}{1 + 2 + 3} = \frac{4}{6} = \frac{2}{3} m$$

$$X_{CM} = \frac{\sum_{i=1}^{m_{i}} x_{i}}{\sum_{i=1}^{m_{i}} x_{i}} = \frac{1 \times 0 + 2 \times \alpha \sin 60 + 3 \times \alpha}{1 + 2 + 3} = \frac{\sqrt{3}}{6} m$$

$$\frac{16m \times 0 + 2m \times a \cos 52^{\circ}}{2m + 16m} = \frac{a \cos 52^{\circ}}{9} = \frac{a \cos 5$$

$$\frac{1}{\sqrt{1 + \frac{1}{2}}} = \frac{8}{10}$$

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$$\frac{1}{\sqrt{2}} \left(\frac{1}{8} + \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \right) + \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2$$