

Quiz 9 — 11/09/17

Name: _____ Section and/or TA: _____

Answer all questions in a clear and concise manner. Unsupported answers will receive *no credit*.

1. (2 points) Find the moments and center of mass of the system of objects that have masses 3, 4, and 8 at the points $(-1, 1)$, $(2, -1)$, and $(3, 2)$, respectively.

2. (3 points)) For the following parametric curve, find an equation for the tangent to the curve at the specified value of the parameter.

$$x(t) = e^t + 2t; \quad y(t) = 4e^{0.5t}; \quad t = 0$$