

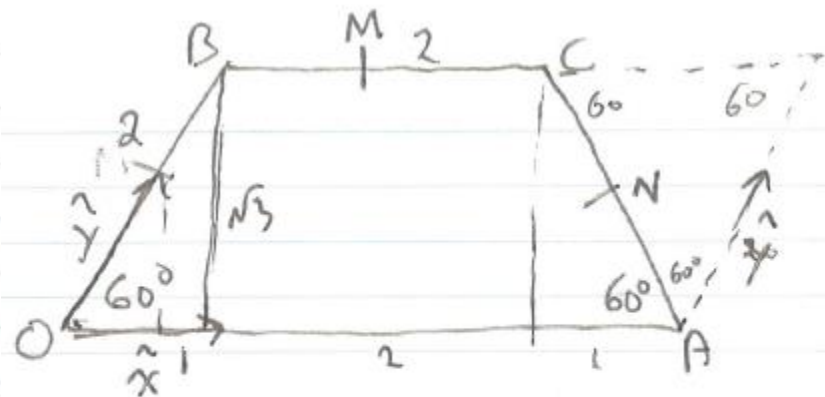
$$a) \vec{OM} = 2\hat{y} + \hat{x} \quad \text{or} \quad \hat{x} + 2\hat{y}$$

$$b) \vec{CO} = -\vec{OC} \\ = -(2\hat{x} + 2\hat{y}) \\ = -2\hat{x} - 2\hat{y}$$

$$c) \vec{OA} = 4\hat{x}$$

$$d) \vec{AC} = 2\hat{y} - 2\hat{x}$$

$$e) \vec{ON} = \vec{OA} + \frac{1}{2}\vec{AC} \\ = 4\hat{x} + \frac{1}{2}(2\hat{y} - 2\hat{x}) \\ = 3\hat{x} + \hat{y}$$



$$OA = 4$$