(vi)
$$\overrightarrow{AM} = \overrightarrow{OM} - \overrightarrow{OA} = \frac{1}{3}b + \frac{1}{3}a - a = \frac{1}{3}b - \frac{1}{3}a$$

b)
$$\vec{M}\vec{C} = \vec{O}\vec{C} - \vec{O}\vec{M} = \frac{1}{2}b - \frac{1}{3}(b+a) = \frac{1}{6}b - \frac{1}{3}a$$

 $\frac{\vec{A}\vec{M}}{\vec{M}\vec{C}} = \frac{\frac{1}{3}b - \frac{2}{3}a}{\frac{1}{6}b - \frac{1}{3}a} = \frac{2}{7}$

$$\frac{3a - \frac{2}{3}b}{ME} = \frac{3a - \frac{2}{3}b}{\frac{1}{6a - \frac{1}{3}b}} = \frac{2}{1}$$

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