Equating Coefficients in Vectors

Find the values of λ and μ by equating coefficients of $\boldsymbol{a}$ and $\boldsymbol{b}$.

(a) $4\boldsymbol{a} + \lambda\boldsymbol{b} = \mu\boldsymbol{a} + 6\boldsymbol{b}$

(b) $\lambda\boldsymbol{a} - 5\boldsymbol{b} = -2\boldsymbol{a} + \mu\boldsymbol{b}$

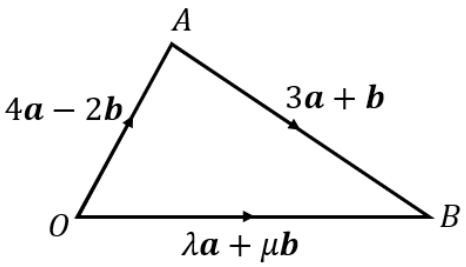
(c) $\lambda\boldsymbol{a} + \mu\boldsymbol{b} = 2\boldsymbol{a} + 6\boldsymbol{b} + 3\boldsymbol{a} - 3\boldsymbol{b}$

(d) $-3\boldsymbol{a} + \lambda\boldsymbol{b} = 2\boldsymbol{a} - \boldsymbol{b} + \mu\boldsymbol{a} + 5\boldsymbol{b}$

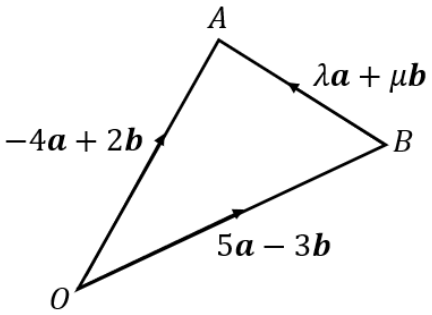
(e) $2(2\boldsymbol{a} - \mu\boldsymbol{b}) + 3\boldsymbol{a} + 10\boldsymbol{b} = \lambda\boldsymbol{a} + 6\boldsymbol{b}$

In the vector diagrams shown, find the values of λ and μ.

(a)



(b)



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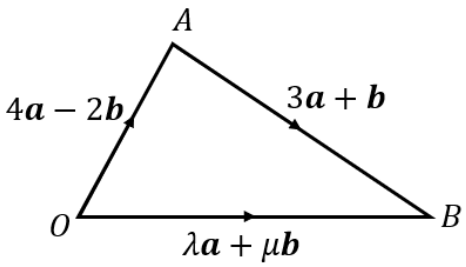
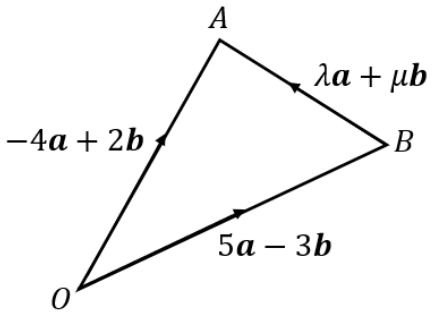


(b)



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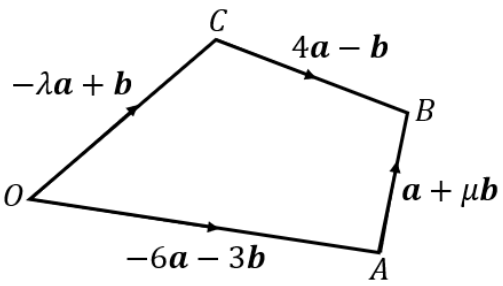
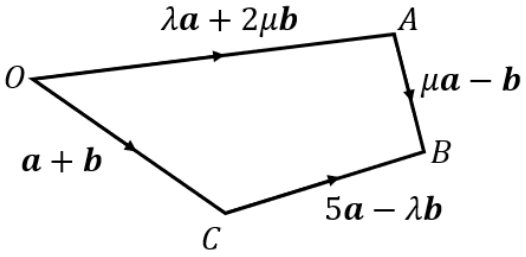


(b)



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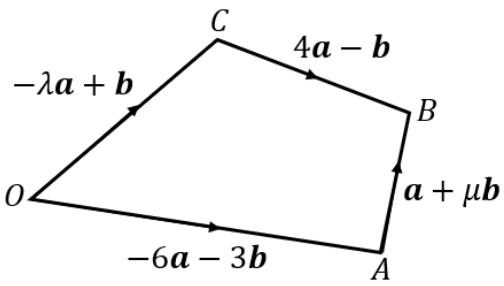

(b)