

# 1.3.1

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**Question:**

If in  $\triangle ABC$ ,  $\mathbf{BA} = 2a$  and  $\mathbf{BC} = 3b$ , then  $\mathbf{AC}$  is \_\_\_\_\_

**Solutions:**

$$\mathbf{CB} = -3b$$

$$\mathbf{BA} + \mathbf{CB} + \mathbf{AC} = 0$$

$$2a + (-3b) + \mathbf{AC} = 0$$

$$\implies \mathbf{AC} = 3b - 2a$$

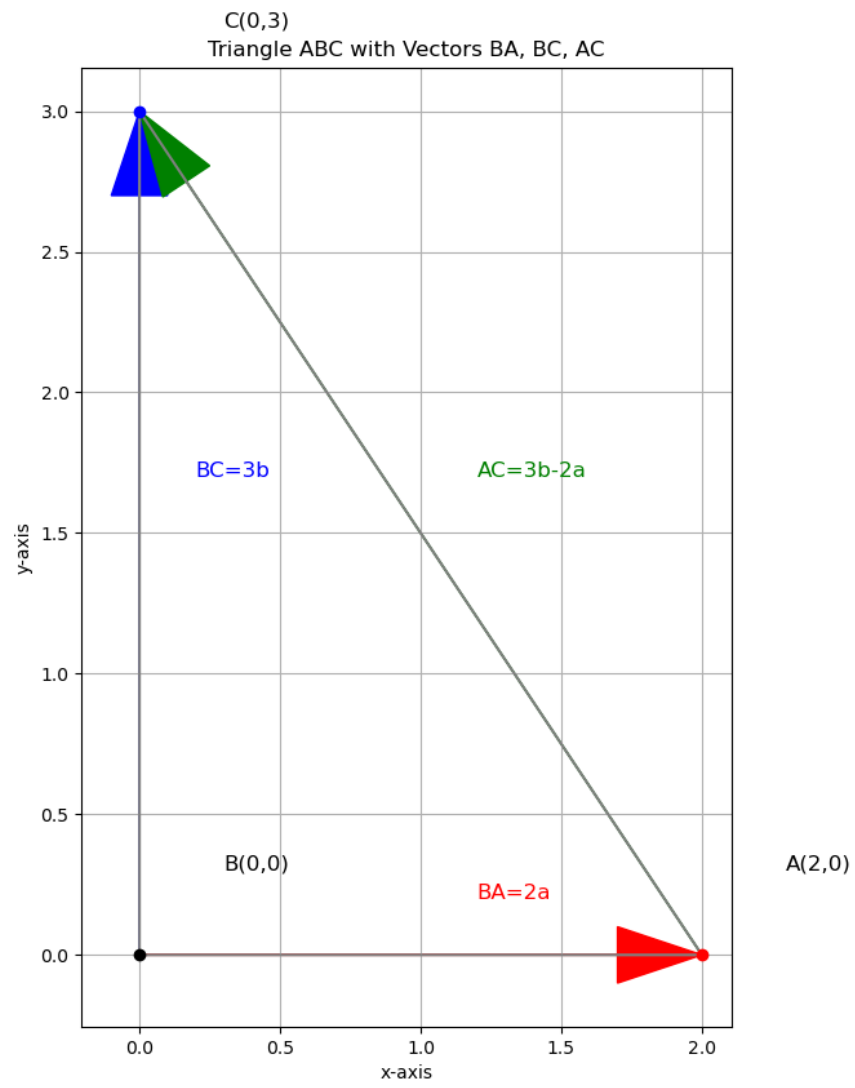


Fig. 0.