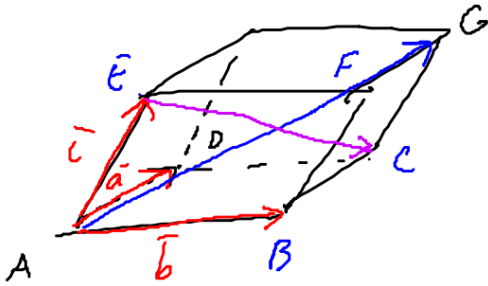


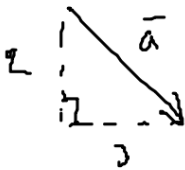
26.



a) $\vec{AG} = \vec{a} + \vec{b} + \vec{c} = \vec{b} + \vec{c} + \vec{a} = \dots$

b) $\vec{EC} = \vec{EA} + \vec{AB} + \vec{BC} = -\vec{c} + \vec{b} + \vec{a} = \vec{a} + \vec{b} - \vec{c} = \dots$

29.



$$|\vec{a}|^2 = 2^2 + 3^2 = 13$$

$$|\vec{b}| = 3$$

$$|\vec{a}| = \sqrt{13}$$

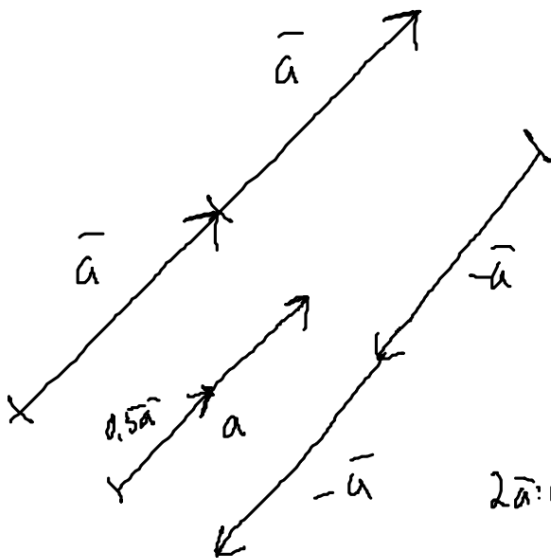


$$|\vec{a} + \vec{b}| = 2$$

$$|\vec{a} - \vec{b}| = \sqrt{2^2 + 6^2} = \sqrt{40}$$

Vektorin kertominen

luvulla



$$\bar{a} + \bar{a} = 2\bar{a}$$

$$0,5\bar{a}$$

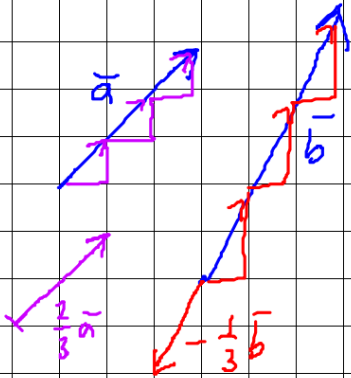
$$-2\bar{a}$$

$2\bar{a}$:n vastavektori = 180° eri suuntaan

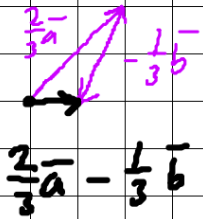
$$= -\bar{a} - \bar{a} = -2\bar{a}$$

- jos vektori \bar{a} kerrotaan posit. luvulla \rightarrow pituus muuttuu ja suunta säilyy
- " — negat. luvulla \rightarrow pituus muuttuu ja suunta 180°

43



$$-\frac{1}{3}\vec{b} + \frac{2}{3}\vec{a}$$



$$\frac{2}{3}\vec{a} - \frac{1}{3}\vec{b}$$