

1. Calculate: a). $\frac{1}{1+\frac{1}{2}}$ b). $\frac{1}{1+\frac{1}{1+\frac{1}{2}}}$ c). $\frac{1}{1+\frac{1}{1+\frac{1}{1+\frac{1}{2}}}}$

2. Properties of vectors:

a). Find coordinates of the points **A** and **B**.

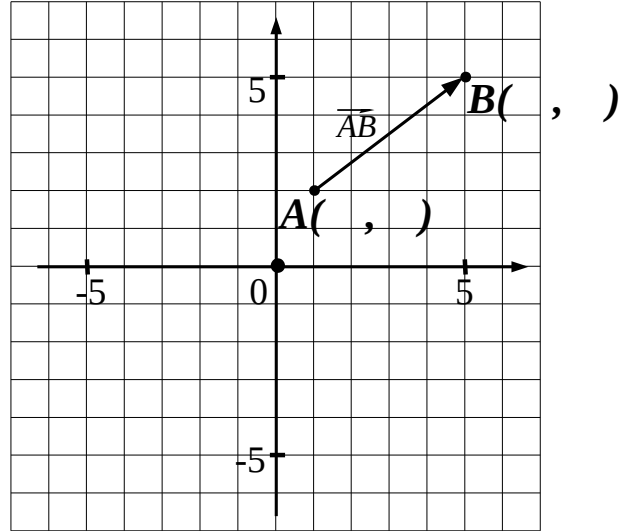
b). What are the coordinates of vector \overrightarrow{AB} ?

$$\overrightarrow{AB} = (\quad , \quad)$$

c). What is the relationship between coordinates A, and B, and coordinates of \overrightarrow{AB} ?

d). Find coordinates of vector

$$\overrightarrow{BA} = (\quad , \quad)$$



For any two points **X** and **Y**: $\overrightarrow{XY} + \overrightarrow{YX} =$

3. Plot points **M**(3, 4), **N**(-2, 4), **L**(1, -3).

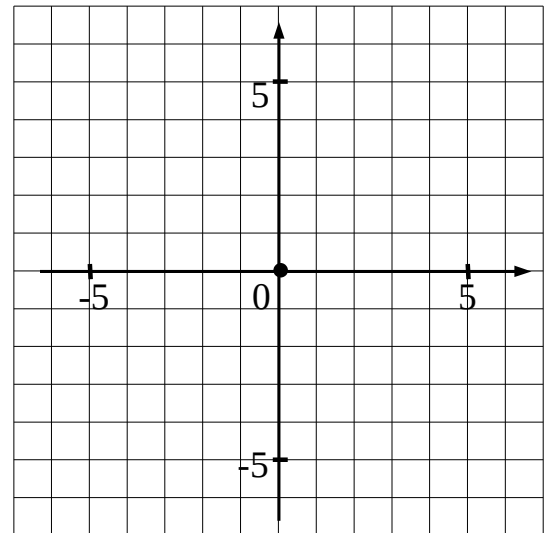
Calculate and plot vectors ...

a). $\overrightarrow{MN} = (\quad , \quad)$

b). $\overrightarrow{LN} = (\quad , \quad)$

c). $\overrightarrow{NL} = (\quad , \quad)$

d). $\overrightarrow{ML} = (\quad , \quad)$



4. a). A snail crawls $2\frac{1}{2}$ m/h. How long will it take the snail to crawl 25 cm?

b). How long does it take a car moving 50mi/h to travel 120 mi?

5. Solve equations: $\frac{1}{1+\frac{1}{x}} = 2$ $\frac{1}{1+\frac{2}{x}} = \frac{1}{3}$ $\frac{1}{1+\frac{2}{x}} = 3$