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

2. Properties of vectors:
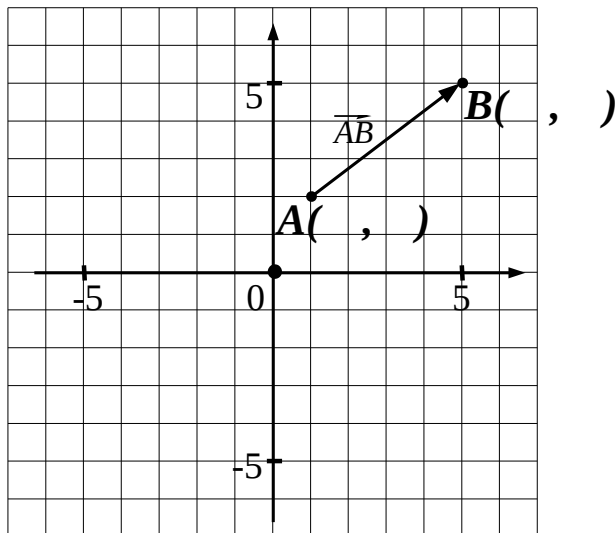
a). Find coordinates of the points **A** and **B**.

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

$\overline{AB}=(\ \ ,\ \ )$

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

d). Find coordinates of vector
$\overrightarrow{BA}=(\ \ ,\ \ )$

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

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

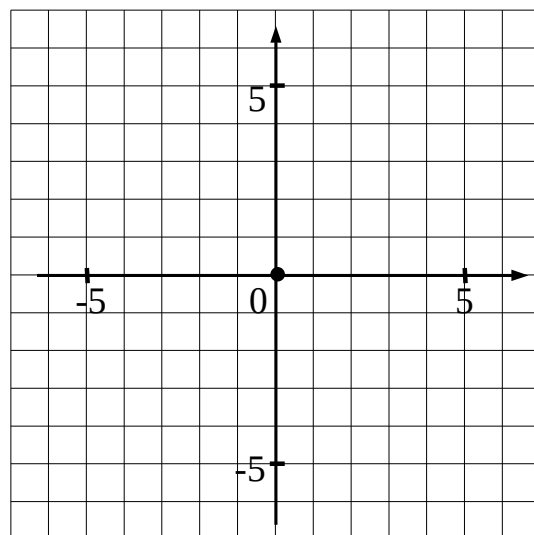Calculate and plot vectors …

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

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

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

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

4. a). A snail crawls 2½ 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: $\dfrac{1}{1+\dfrac{1}{x}}=2$ $\dfrac{1}{1+\dfrac{2}{x}}=\dfrac{1}{3}$ $\dfrac{1}{1+\dfrac{2}{x}}=3$