

Complete in this handout

1. Plot vectors $\vec{g}=(3,2)$, $\vec{m}=(-2,3)$, and $\vec{x}=(1,-3)$

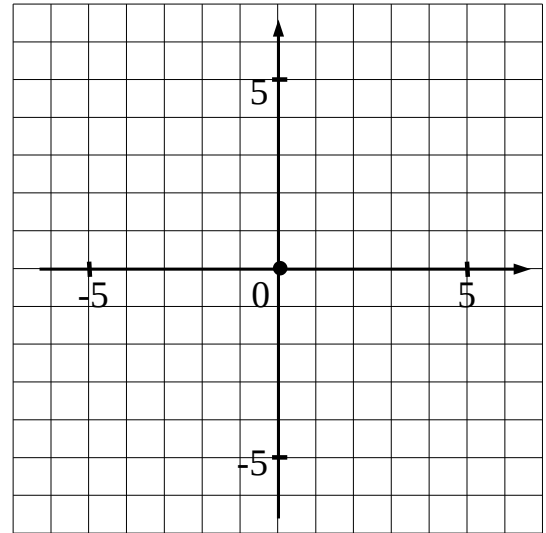
Find and plot vectors ...

... $\vec{g}+\vec{m} = (\quad , \quad)$

... $\vec{x}-\vec{g} = (\quad , \quad)$

... $\vec{x}+2\vec{m} = (\quad , \quad)$

... $2\vec{x}+\vec{m} = (\quad , \quad)$



2. A pipe can drain a swim pool in 6 hours. The pool is $\frac{4}{5}$ full of water. How many hours and minutes will it take to drain it?

3. Solve the word problems.

- a). A tape transporter moves 3 km/h. How fast can it move 250 m ($\frac{1}{4}$ km)?

- b). A man can walk 6 km/h. How long will it take him to walk 250 m?

- c). How fast can the man walk 250 m on the transporter?

Complete in your notebook:

4. Calculate: $\frac{\frac{3}{4} - \frac{1}{8}}{\frac{1}{4} + \frac{3}{16}} - \frac{3}{7} =$

5. Show that ...

a). ... $(\frac{2}{3}x + 1) : \frac{1}{6} - 3 \cdot (x + 2) = x$

b). ... $(2x - 1) \cdot \frac{1}{4} + (4x + 1) : 8 + \frac{1}{8} = x$

6. Solve the equations:

a). $12 - \frac{5}{6}x = 7$

b). $2 + \frac{2}{3}x = \frac{1}{6}x + 4$

c). $12 - \frac{6}{x} = 4$

Answers:

2 – 4h 48 min

3a – 5 min

3b – 2 min 30 sec

3c – 36 sec

4 – 1

6a: $x = 6$

6b: $x = 4$

6c: $x = \frac{3}{4}$