Complete in this handout

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

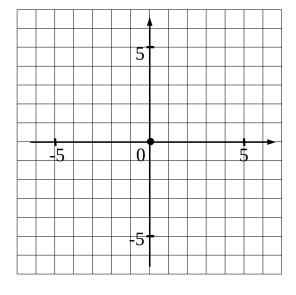
Find and plot vectors ...

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

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

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

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



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 (½ 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).
$$12 - \frac{5}{6}x = 7$$

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 b). $2 + \frac{2}{3}x = \frac{1}{6}x + 4$ **c).** $12 - \frac{6}{x} = 4$

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$$12 - \frac{6}{x} = 4$$

Answers:

2 – 4h 48 min

6a:
$$x = 6$$

6b:
$$x = 4$$

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