Math 4B - HW 19



1) A boat moves 18 km/h in a lake. How long will it take to cover ...

a). ... 48 km in still water?

b). ... 48 km when it moves down a river flowing 6 km/h?

c). ... to come back the same 48 km when moving upstream?

2) A store is giving rewards to its customers at the register. Every 15th receives a free lollipop, every 24th receives a free chocolate bar. During that day 1000 customers visited the store. How many of them have received ...

a) a free lollipop? b) a free chocolate bar? c) both?

3) Plot vectors $\vec{e} = (3,2), \ \vec{g} = (-1,3),$ and $\vec{x} = (0,-3).$

Plot the following vector sums as well. (Extra grids are provided, if you need them)

 $\vec{e} + \vec{g} = ($,) $\vec{e} + \vec{x} = ($,)

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

 $2\vec{x} = ($,) $\vec{e} - \overrightarrow{2g} = ($,)









4) Using the following picture, answer True or False

d) E = L a) H = -I

- b)A = J + C
- c) A+B = J + D

- e) J + E = L + F
- f) D + E = K