Quick Quiz!

Name: Bethany Little

I would like to get to know you, and also to figure out where I should start teaching. Please take a few minutes to fill this out. Thanks!

1. Tell me about yourself (eg. where you are from, some interesting fact about you, etc)

I was born in France, grew up in Morocco Then Canada, and now live in the US, so I don't really know where In from i'

I like music, art, + swimming, and my bike is my transportation

- 2. What is your favorite snack?
- 3. Tea or coffee (or neither)? $\downarrow_{\ell_{CA}}$
- 4. Why are you taking this class? Anything in particular you are interested in or hope to get out of it?

5. What else are you doing this summer?

Studying for the physics prelin. exams! A

$$u = i + 2j + 3k$$

 $v = j + 2k$

Find:

a)
$$\vec{u} + \vec{v} = (1+0)\hat{1} + (2+1)\hat{1} + (3+2)\hat{k}$$

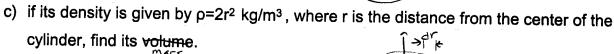
= $\hat{1} + 3\hat{1} + 5\hat{k}$

d)
$$\vec{u} \times \vec{v} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ 1 & 23 \\ 0 & 12 \end{vmatrix} = \hat{i} \begin{vmatrix} 23 \\ 12 \end{vmatrix} + \hat{j} \begin{vmatrix} 13 \\ 02 \end{vmatrix} + \hat{k} \begin{vmatrix} 12 \\ 01 \end{vmatrix}$$

$$= \hat{i} + 2\hat{j} + \hat{k}$$

7. Given a cylinder of radius R and height h:

- a) Find its volume.
- b) Find its surface area.



$$M = \int dM$$

$$= \int PdV$$

$$= \int P2\pi rhdr$$

$$= 2\pi h(2) \int r^{3}dr$$

$$M = \pi h R^{4}$$

