$$\vec{A} = -2\hat{x} + 3\hat{z} - 4\hat{y}$$
$$\vec{B} = -\hat{y} + 2\hat{x}$$

$$\vec{C} = 5\hat{x}$$

a) Do **DOT** product: \vec{A} . \vec{B} . Show your work in detail, step by step

b) Do CROSS product: $\vec{A} \times \vec{B}$. Show your work in detail, step by step

c) Find the angle between B and C, Show your work in detail, step by step