1. Rewrite the equation of the plane

$$x - 4y + 2z = 6$$

- in intercept form.
- using a dot product between a normal vector and a vector in the plane.

- 2. (a) Let \underline{u} be the vector and \underline{v} be the vector .

 Is $\underline{u} \times \underline{v}$ into the page/screen or out of the page (towards you)?
 - into the page out of the page
 - (b) Compute $(\underline{i}-\underline{j}+\underline{k})\times(-3\underline{i}+\underline{j})$ using distributive and scalar multiplication properties of the cross product along with the cross product relationships between $\underline{i},\underline{j},\underline{k}$.

cross product: