3. 
$$\int 3x^{2} (x^{3} - 5)^{7} dx$$

$$\frac{du}{dx} = 3x^{2}$$

$$\int \frac{du}{dx} (u)^{7} dx$$

$$\int \frac{du}{dx} = 3x^{2}$$

$$\int \frac{du}{dx} (u)^{7} dx$$

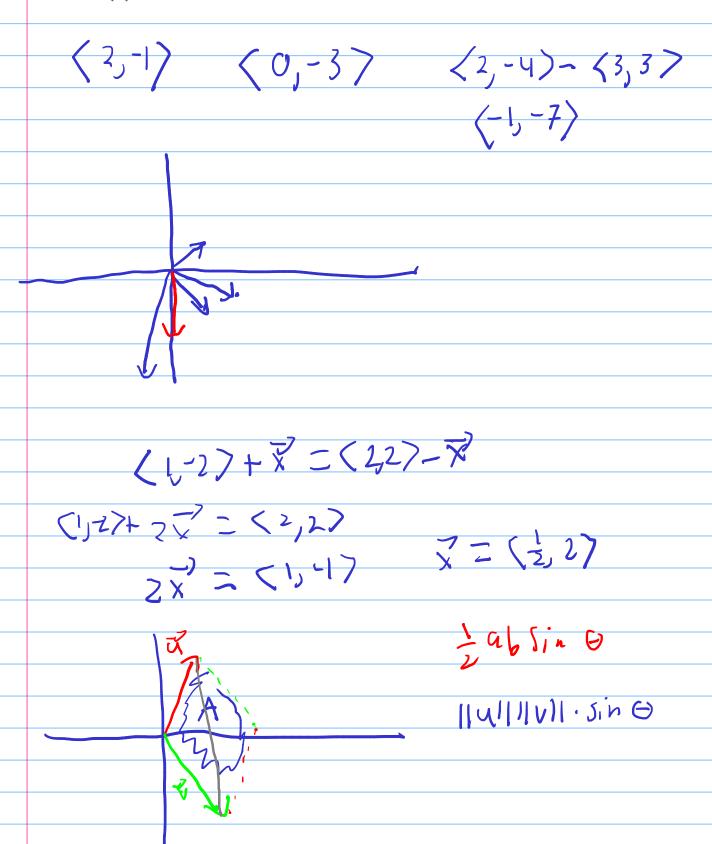
$$\int \frac{du}{dx} = 2x$$

$$\int \frac{1}{2} \frac{du}{dx} (u)^{8} dx$$

$$\int \frac{1}{2} \frac{du}{d$$

11. Let 
$$\vec{u} = \langle 1, -2 \rangle$$
 and  $\vec{v} = \langle 1, 1 \rangle$ .

- (a) Find  $\vec{u} + \vec{v}$ ,  $\vec{u} \vec{v}$ ,  $2\vec{u} 3\vec{v}$ .
- (b) Sketch the above vectors on the same axes, along with  $\vec{u}$  and  $\vec{v}$ .
- (c) Find  $\vec{x}$  where  $\vec{u} + \vec{x} = 2\vec{v} \vec{x}$ .



47 -147 +125 +52 - (-62 +207+71) -349 +59 +11R (-24,5,117

 $(\overrightarrow{U}+\overrightarrow{V}) \times \overrightarrow{W} = \overrightarrow{U} \times \overrightarrow{W} + \overrightarrow{V} \times \overrightarrow{W}$   $\overrightarrow{Z} \times (\overrightarrow{U}+\overrightarrow{V}) - \overrightarrow{W} \times \overrightarrow{W} + \overrightarrow{W} \times \overrightarrow{W}$ 

$$\vec{p}^2 = (3, 1, 4)$$
  $\vec{l}(t) = \vec{p} + t\vec{J}$   
 $\vec{l} = (2, 1, 2)$