# Activity 4:

**Find a unit vector u with the same direction as the given vector.**

| W = <6 , -2 > | X = < -4 , -8 > |
|---|---|
| $u = \left\langle \dfrac{3\sqrt{10}}{10}, \dfrac{-\sqrt{10}}{10} \right\rangle$ | $u = \left\langle \dfrac{3\sqrt{10}}{10}, \dfrac{-\sqrt{10}}{10} \right\rangle$ |
| $u = \left\langle \dfrac{1}{10}, \dfrac{-\sqrt{10}}{2} \right\rangle$ | $u = \left\langle \dfrac{1}{10}, \dfrac{-\sqrt{10}}{2} \right\rangle$ |
| $u = \left\langle \dfrac{-\sqrt{5}}{5}, \dfrac{-2\sqrt{5}}{5} \right\rangle$ | $u = \left\langle \dfrac{-\sqrt{5}}{5}, \dfrac{-2\sqrt{5}}{5} \right\rangle$ |
| $u = \left\langle \dfrac{-\sqrt{5}}{5}, \dfrac{+\sqrt{5}}{5} \right\rangle$ | $u = \left\langle \dfrac{-\sqrt{5}}{5}, \dfrac{+\sqrt{5}}{5} \right\rangle$ |

Creating
Evaluating
Analysing
Applying
Understanding
Remembering