



Find the magnitude of the vector (1,2)
$$V = (1,2)$$

$$|V| = \sqrt{|z|} + 2^{2}$$

$$|z| = \sqrt{5}$$

$$|z| = 2 \cdot 2$$

Normalise the vector (8,6)
$$V = (8,6)$$

$$(V = \sqrt{8^2 + 6^2})$$

$$= (9,6)$$

$$= (9,6)$$

$$= (0.8,0.6)$$

Find the angle between vectors (1,1) and (-1,-1)
$$U = \sqrt{2}$$

$$U = (-1,-1)$$

$$U \cdot v = |U| (V) \cos \theta$$

$$U \cdot v = -2$$

$$\cos \theta = -1$$

$$\theta = (800)$$

Is vector (3,4) perpendicular to (2,1)?
$$(3,4) \cdot (2,1) = 6+4=l_0$$

