

$$6) \quad V_1 = \{1, 2\}, \quad V_2 = \{3, 4\}$$

$$V_1 \cdot V_2 = (1 \times 3) + (2 \times 4) = 3 + 8 = 11$$

$$|V_1| = \sqrt{1^2 + 2^2} = \sqrt{5}$$

$$|V_2| = \sqrt{3^2 + 4^2} = \sqrt{25} = 5$$

$$\text{Angle} = \cos^{-1} \left(\frac{V_1 \cdot V_2}{|V_1| |V_2|} \right) = \cos^{-1} \left(\frac{11}{\sqrt{5} \times 5} \right)$$

$$\boxed{\text{Angle} = 33.2}$$