

1.2.4

$$\text{Angle } \cos \theta = \frac{P \cdot Q}{|P| \cdot |Q|}$$

$$P = (-2, 4) \quad Q = (3, -5)$$

$$|P| = \sqrt{(-2)^2 + 4^2} = \sqrt{20}$$

$$|Q| = \sqrt{3^2 + (-5)^2} = \sqrt{34}$$

$$P \cdot Q = -6 + (-20) = -26$$

$$\text{Angle}(P, Q) = \cos \theta = \frac{-26}{\sqrt{20} \sqrt{34}}$$

$$= \cos \theta = \frac{-26}{26.07}$$

$$\approx 176.5^\circ$$