1.2.17

$P = (3, -4, 12)$

$\cos\theta_1 = \frac{P_1}{|P|}$ From But

$|P| = \sqrt{9+16+144} = \sqrt{169} = 13$

$\cos\theta_1 = \frac{P_1}{|P|} = \frac{3}{13} = 76.7°$

$\cos\theta_2 = \frac{P_2}{|P|} = \frac{-4}{13} = 107.1°$

$\cos\theta_3 = \frac{P_3}{|P|} \quad \frac{12}{13} = 22.7°$