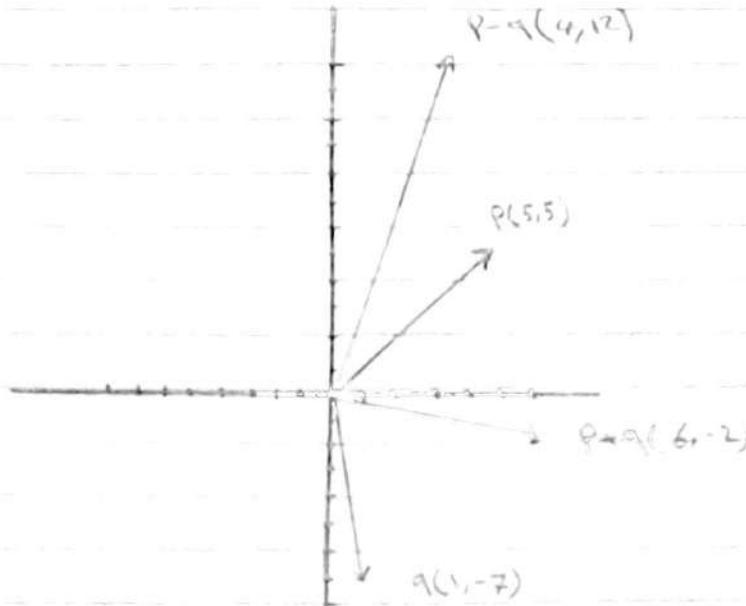


1.2.1

$$P = (5, 5), \quad q = (1, -7)$$

$$A - P + q = (6, -2), \quad P - q = (4, 12)$$

B -



$$C - |P| = \sqrt{5^2 + 5^2} = \sqrt{50}$$

$$|q| = \sqrt{1^2 + (-7)^2} = \sqrt{50}$$

$$|P+q| = \sqrt{6^2 + (-2)^2} = \sqrt{40}$$

$$|P-q| = \sqrt{4^2 + 12^2} = \sqrt{160}$$

$$D - |P+q|^2 = (\sqrt{40})^2 = 40$$

$$|P|^2 = (\sqrt{50})^2 = 50$$

$$|q|^2 = (\sqrt{50})^2 = 50$$

$$\text{So } |P+q|^2 \neq |P|^2 + |q|^2$$

$$\text{Since } 40 \neq 50 + 50$$