

Β ΛΥΚΕΙΟΥ ΘΕΤΙΚΟΣ ΠΡΟΣΑΝΑΤΟΛΙΣΜΟΣ

2.5 1)

$$\alpha) \quad |\vec{\alpha} + \vec{\beta}| \leq |\vec{\alpha}| + |\vec{\beta}| \Rightarrow |\vec{\alpha} + \vec{\beta}| \leq 3 + 5 \Rightarrow |\vec{\alpha} + \vec{\beta}| \leq 8$$

$$\beta) \quad |\vec{\alpha} + \vec{\beta}| \geq \left| |\vec{\alpha}| - |\vec{\beta}| \right| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq |3 - 5| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq |-2| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq 2$$

2.5 2)

$$\alpha) \quad |\vec{\alpha} + \vec{\beta}| \leq |\vec{\alpha}| + |\vec{\beta}| \Rightarrow |\vec{\alpha} + \vec{\beta}| \leq 4 + 3 \Rightarrow |\vec{\alpha} + \vec{\beta}| \leq 7$$

$$\beta) \quad |\vec{\alpha} + \vec{\beta}| \geq \left| |\vec{\alpha}| - |\vec{\beta}| \right| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq |4 - 3| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq |1| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq 1$$

2.5 3)

$$\alpha) \quad |\vec{\alpha} + \vec{\beta}| \leq |\vec{\alpha}| + |\vec{\beta}| \Rightarrow |\vec{\alpha} + \vec{\beta}| \leq 2 + 7 \Rightarrow |\vec{\alpha} + \vec{\beta}| \leq 9$$

$$\beta) \quad |\vec{\alpha} + \vec{\beta}| \geq \left| |\vec{\alpha}| - |\vec{\beta}| \right| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq |2 - 7| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq |-5| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq 5$$

2.5 4)

$$\alpha) \quad |\vec{\alpha} + \vec{\beta}| \leq |\vec{\alpha}| + |\vec{\beta}| \Rightarrow |\vec{\alpha} + \vec{\beta}| \leq 6 + 4 \Rightarrow |\vec{\alpha} + \vec{\beta}| \leq 10$$

$$\beta) \quad |\vec{\alpha} + \vec{\beta}| \geq \left| |\vec{\alpha}| - |\vec{\beta}| \right| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq |6 - 4| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq |2| \Rightarrow |\vec{\alpha} + \vec{\beta}| \geq 2$$