

Β ΛΥΚΕΙΟΥ ΘΕΤΙΚΟΣ ΠΡΟΣΑΝΑΤΟΛΙΣΜΟΣ

5.6 1)

$$\text{Είναι } \overrightarrow{AB} = (-2-3, 4-2) \Rightarrow \overrightarrow{AB} = (-5, 2) \text{ και } \overrightarrow{\Gamma\Delta} = (-1-0, -5+1) \Rightarrow \overrightarrow{\Gamma\Delta} = (-1, -4)$$

$$\text{Επομένως } \overrightarrow{AB} \cdot \overrightarrow{\Gamma\Delta} = -5 \cdot (-1) + 2 \cdot (-4) = 5 - 8 = -3$$

5.6 2)

$$\text{Είναι } \overrightarrow{AB} = (-1-0, -5-1) = (-1, -6) \text{ και } \overrightarrow{\Gamma\Delta} = (4-3, -2+3) = (1, 1)$$

$$\text{Επομένως } \overrightarrow{AB} \cdot \overrightarrow{\Gamma\Delta} = (-1) \cdot 1 + (-6) \cdot 1 = -1 - 6 = -7$$

5.6 3)

$$\text{Είναι } \overrightarrow{A\Gamma} = (-2-5, -1-(-1)) = (-7, 0) \text{ και } \overrightarrow{\Delta B} = (2-(-3), 0-4) = (5, -4)$$

$$\text{Επομένως } \overrightarrow{A\Gamma} \cdot \overrightarrow{\Delta B} = (-7) \cdot 5 + (-4) \cdot 0 = -35$$