

Β ΛΥΚΕΙΟΥ ΘΕΤΙΚΟΣ ΠΡΟΣΑΝΑΤΟΛΙΣΜΟΣ

4.23 1)

$$\alpha) |\vec{\alpha}| = \sqrt{15^2 + (-8)^2} = \sqrt{225 + 64} = \sqrt{289} = 17$$

$$\beta) |\vec{\beta}| = \sqrt{(-3)^2 + 2^2} = \sqrt{9 + 4} = \sqrt{13}$$

4.23 2)

$$|\vec{\alpha}| = \sqrt{3^2 + 4^2} = \sqrt{9 + 16} = \sqrt{25} = 5$$

4.23 3)

$$|\vec{\alpha}| = \sqrt{5^2 + (-12)^2} = \sqrt{25 + 144} = \sqrt{169} = 13$$

4.23 4)

$$|\vec{\alpha}| = \sqrt{(-6)^2 + (-8)^2} = \sqrt{36 + 64} = \sqrt{100} = 10$$

4.23 5)

$$|\vec{\alpha}| = \sqrt{(-1)^2 + 2^2} = \sqrt{1 + 4} = \sqrt{5}$$

4.23 6)

$$|\vec{\alpha}| = \sqrt{(-10)^2 + 15^2} = \sqrt{100 + 225} = \sqrt{325} = \sqrt{25 \cdot 13} = 5\sqrt{13}$$

4.23 7)

$$|\vec{\alpha}| = \sqrt{1^2 + (-3)^2} = \sqrt{1 + 9} = \sqrt{10}$$

4.23 8)

$$|\vec{\alpha}| = \sqrt{2^2 + 2^2} = \sqrt{2 \cdot 4} = 2\sqrt{2}$$

4.23 9)

$$|\vec{\alpha}| = \sqrt{8^2 + (-15)^2} = \sqrt{64 + 225} = \sqrt{289} = 17$$

4.23 10)

$$|\vec{\alpha}| = \sqrt{(-9)^2 + (-12)^2} = \sqrt{81 + 144} = \sqrt{225} = 15$$

4.23 11)

$$|\vec{\alpha}| = \sqrt{7^2 + (-1)^2} = \sqrt{49 + 1} = \sqrt{50} = \sqrt{2 \cdot 25} = 5\sqrt{2}$$