

$$\vec{\alpha} = (2, -2), \vec{\beta} = (-1, 0) \quad \vec{v} = \vec{\alpha} - 2\vec{\beta}$$

- i. $\vec{\alpha} \cdot \vec{\beta}$
- ii. $\vec{\alpha} \cdot \vec{v}$
- iii. $\vec{v} \cdot \vec{v}$
- iv. $\vec{v} \cdot \vec{\alpha}$
- v. $\vec{v} \cdot \vec{\beta}$
- vi. $\vec{v} \cdot \vec{v}$
- vii. $\vec{\alpha} \cdot \vec{v}$
- viii. $(\vec{\alpha}, \vec{v})$
- ix. $\vec{\alpha} \cdot \vec{\beta}$
- x. $\vec{\alpha} \cdot \vec{v}$
- xi. $\vec{w} = (, 1) \in \mathcal{R}$
- xii. $\vec{g} = (2,) \in \mathcal{R}$
- xiii. $\vec{u} = \lambda \vec{\alpha} + \vec{\beta}$
- xiv. $\vec{\gamma}, \vec{\gamma} \cdot \vec{\alpha} = 2 \text{ και } \vec{\gamma} \cdot \vec{\beta} = 3$
- xv. $\vec{\gamma}$
- xvi. \vec{OA}, \vec{OB}
- xvii. $\vec{\alpha}, \vec{\beta}$