

**Rješenja zadataka 3.2**

**Zadatak 1.** Koliko je  $\sin 2\alpha$  ako je  $\cos \alpha = -\frac{5}{13}$ ,  $\frac{\pi}{2} < \alpha < \pi$ ?

**Rješenje.**  $\frac{\pi}{2} < \alpha < \pi$ ,  $\sin \alpha > 0$ :

$$\sin \alpha = \sqrt{1 - \cos^2 \alpha} = \sqrt{1 - \frac{25}{169}} = \frac{12}{13}$$

$$\sin 2\alpha = 2 \sin \alpha \cos \alpha = 2 \cdot \left(-\frac{5}{13}\right) \cdot \frac{12}{13} = -\frac{120}{169}.$$