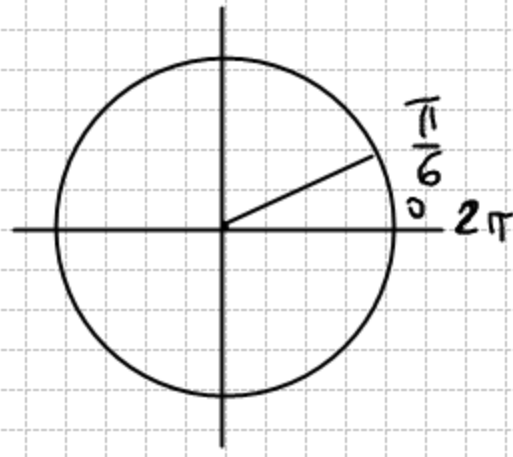


ES 31 PAG 29

$$\cos 8\pi - \sqrt{3} \cos \frac{\pi}{6} + \cos \frac{5}{2}\pi - \frac{1}{5} \operatorname{sen} 3\pi =$$

$$= 1 - \sqrt{3} \cdot \frac{\sqrt{3}}{2} + 0 - \frac{1}{5} \cdot 0 = 1 - \frac{3}{2} = -\frac{1}{2}$$



N 32

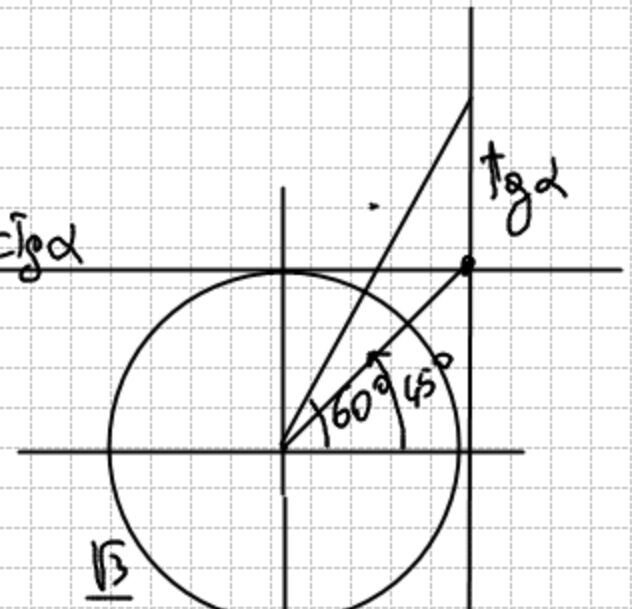
$$2 \cos \pi - 4 \operatorname{sen} \left(-\frac{\pi}{2}\right) + 5 \cos 0 =$$

$$= -2 - 4(-1) + 5(1) = 2 + 4 + 5 = 7$$

ES 60

$$5 \operatorname{sen} 270^\circ - 2 \operatorname{tg} 180^\circ + \frac{4}{\sqrt{3}} \operatorname{tg} 60^\circ - 5 \operatorname{c} \operatorname{tg} 45^\circ = \operatorname{c} \operatorname{tg} \alpha$$

$$= -5 - 2(0) + \frac{4}{\sqrt{3}} \cdot (\sqrt{3}) - 5(1) = -6$$



$$\frac{\operatorname{sen} 60}{\cos 60} = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \frac{\sqrt{3}}{2} \times \frac{2}{1} = \sqrt{3}$$

$$\operatorname{c} \operatorname{tg} 45 = \frac{1}{\operatorname{tg} 45} =$$

N 68

$$\operatorname{c} \operatorname{c} \operatorname{sen} \alpha = \frac{5}{13} \quad -\frac{\pi}{2} < \alpha < 0$$

$$\operatorname{sen}^2 \alpha + \cos^2 \alpha = 1$$

$$\operatorname{sen}^2 \alpha + \left(\frac{5}{13}\right)^2 = 1$$

$$\operatorname{sen}^2 \alpha = 1 - \frac{25}{169}$$

$$\operatorname{sen}^2 \alpha = \frac{144}{169} \quad \operatorname{sen} \alpha = \pm \frac{12}{13}$$

$$\text{Como } -\frac{\pi}{2} < \alpha < 0 \rightarrow \operatorname{sen} \alpha = -\frac{12}{13}$$

$$\operatorname{tg} \alpha = \frac{\operatorname{sen} \alpha}{\cos \alpha}$$

