

α) Είναι:

$$\begin{aligned} A &= \frac{\sqrt{3}}{\sqrt{5}-\sqrt{3}} + \frac{\sqrt{5}}{\sqrt{5}+\sqrt{3}} = \\ &= \frac{\sqrt{3}(\sqrt{5}+\sqrt{3})}{(\sqrt{5}-\sqrt{3})(\sqrt{5}+\sqrt{3})} + \frac{\sqrt{5}(\sqrt{5}-\sqrt{3})}{(\sqrt{5}-\sqrt{3})(\sqrt{5}+\sqrt{3})} = \\ &= \frac{\sqrt{3}\sqrt{5}+\sqrt{3}\sqrt{3}+\sqrt{5}\sqrt{5}-\sqrt{5}\sqrt{3}}{(\sqrt{5}-\sqrt{3})(\sqrt{5}+\sqrt{3})} = \\ &= \frac{\sqrt{9}+\sqrt{25}}{(\sqrt{5})^2-(\sqrt{3})^2} = \\ &= \frac{3+5}{5-3} = \frac{8}{2} = 4 \end{aligned}$$

β) Η εξίσωση γράφεται:

$$\begin{aligned} |x + A| &= 1 \Leftrightarrow \\ \Leftrightarrow |x + 4| &= 1 \Leftrightarrow \\ \Leftrightarrow (x + 4 = 1 \text{ ή } x + 4 = -1) &\Leftrightarrow \\ \Leftrightarrow (x = -3 \text{ ή } x = -5) & \end{aligned}$$