

EJERCICIO MIBE 3309:

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$$\begin{aligned} & \frac{\sqrt{125}}{5} - 7\sqrt{27} + \frac{\sqrt{54}}{3} - \sqrt{24} + \frac{1}{8}\sqrt{45} = \\ & = \frac{\sqrt{5^3}}{5} - 7\sqrt{3^3} + \frac{\sqrt{2 \cdot 3^3}}{3} - \sqrt{2^3 \cdot 3} + \frac{1}{8}\sqrt{3^2 \cdot 5} = \\ & = \frac{\cancel{5}\sqrt{5}}{\cancel{5}} - 7 \cdot 3\sqrt{3} + \frac{\cancel{3}\sqrt{2 \cdot 3}}{\cancel{3}} - 2\sqrt{6} + \frac{3}{8}\sqrt{5} = \\ & = \sqrt{5} - 21\sqrt{3} + \sqrt{6} - 2\sqrt{6} + \frac{3}{8}\sqrt{5} = \\ & = \left(1 + \frac{3}{8}\right)\sqrt{5} - 21\sqrt{3} + (1-2)\sqrt{6} = \\ & = \frac{8+3}{8}\sqrt{5} - 21\sqrt{3} - 1\sqrt{6} = \\ & = \boxed{\frac{11}{8}\sqrt{5} - 21\sqrt{3} - \sqrt{6}} \end{aligned}$$