Exercice 1 Calculer.

a) $\sqrt{\dfrac{3}{4}} + \sqrt{\dfrac{49}{12}}$

b) $\dfrac{1}{2}\sqrt{75} + \sqrt{\dfrac{4}{27}} - 7\sqrt{12}$

c) $2\sqrt{5} - \dfrac{1}{2}\sqrt{\dfrac{1}{5}} + \dfrac{1}{20}\sqrt{45}$

d) $\dfrac{1}{\sqrt{5} + \sqrt{7}} - \sqrt{5} - \sqrt{7}$