Add the following radicals, making them **like radicals** by previously extracting all possible factors (as shown in the example):

a) $\sqrt{2}+\sqrt{8}+\sqrt{18}-\sqrt{32}=\sqrt{2}+\sqrt{2^3}+\sqrt{3^2 2}-\sqrt{2^5}=\sqrt{2}+2\sqrt{2}+3\sqrt{2}-2^2\sqrt{2}=\sqrt{2}+2\sqrt{2}+3\sqrt{2}-4\sqrt{2}=\boxed{2\sqrt{2}}$

FACTORISE RADICANDS   EXTRACT FACTORS   ADD LIKE RADICALS

b) $\sqrt{5}+\sqrt{45}+\sqrt{180}-\sqrt{80}=\sqrt{}$

c) $\sqrt{24}-5\sqrt{6}+\sqrt{486}=\sqrt{}$

d) $27\sqrt{3}-5\sqrt{27}-9\sqrt{12}=\sqrt{}$

e) $2\sqrt{8}+5\sqrt{72}-7\sqrt{18}-\sqrt{50}=\sqrt{}$