

1. Simplify the following radicals.

$$\text{a) } \sqrt{20} = \sqrt{4} \sqrt{5} = 2\sqrt{5}$$

$$\text{b) } \sqrt{54} = \sqrt{9} \sqrt{6} = 3\sqrt{6}$$

$$\text{c) } 3\sqrt{75} = 3 \sqrt{25} \sqrt{3} = 3 \cdot 5 \sqrt{3} = 15\sqrt{3}$$

$$\text{d) } 2\sqrt{60} = 2 \sqrt{4} \sqrt{15} = 2 \cdot 2 \sqrt{15} = 4\sqrt{15}$$

$$\text{e) } \sqrt{288} = \sqrt{144} \sqrt{2} = 12\sqrt{2}$$