

Name _____

1. Perform the indicated operations. Simplify your answers.

a. $(3 - 5\sqrt{7})(4 + 4\sqrt{7})$

b. $3\sqrt{20} - 5\sqrt{5} + \sqrt{45}$ Hint: change to like radicals.

c) $(3 + 2\sqrt{3})(4 - 3\sqrt{3})$

d) . $(3 + 5\sqrt{7})(4 + 4\sqrt{7})$

e. $(5 - 4\sqrt{3})(5 + 4\sqrt{3})$

2. Simplify

a. $\sqrt{48}$

b. $\frac{4}{\sqrt{5}}$

c. $3\sqrt{20} - 7\sqrt{45} + \sqrt{5}$

3. Simplify

a. $\sqrt{x} \cdot \sqrt[3]{x}$

b. $5\sqrt{3} - \sqrt{3}$

4. Simplify.

a) $\frac{5}{\sqrt{15}}$

b) $3\sqrt{20} - 7\sqrt{45} + \sqrt{5}$