

Math 92
Quiz 7.5

1) Simplify by combining like radical terms. Assume all variables represent positive numbers

a) $8\sqrt{11} - 8\sqrt{3} + 4\sqrt{11} + 2\sqrt{3}$

b) $4\sqrt{3x^3} - \sqrt{12x}$

2) Multiply and if possible simplify. Assume all variables represent positive numbers

a) $\sqrt{x}(4 + \sqrt{x})$

b) $(1 + \sqrt{x})^2$

3) Rationalize each denominator. Assume all variables represent positive numbers.

$$\frac{3}{x - \sqrt{2}}$$