

Math 20-2

Name: _____

Quiz 2: Add, Subtract, Multiply and Simplify Radicals.

1. Simplify each (5 marks).

a) $5\sqrt{2} + 7\sqrt{11} + 2\sqrt{2} - 3\sqrt{11}$

b) $\sqrt{24} + \sqrt{150} - \sqrt{54}$

c) $5\sqrt{12} - 7\sqrt{20} - 3\sqrt{45}$

2. Multiply each, always express in simplest form. (5 marks)

a) $5\sqrt{3} \times 2\sqrt{7}$

b) $\sqrt{8} \times \sqrt{6}$

c) $3\sqrt{6} \times 4\sqrt{3}$

3. Multiply each, always express in simplest form. (5 marks)

a) $2\sqrt{3}(2\sqrt{8} + 5\sqrt{3})$

b) $(3\sqrt{6} - 5\sqrt{2})^2$

4. Express the mixed radical $5\sqrt{3}$ as an entire radical. (2 marks)

$5\sqrt{3}$