

Name _____

Alg2a Q3 Test 1

PRACTICE TEST

February 27, 2019
Operations with Radicals

Reducing Radicals:

1) $\sqrt{972}$

2) $\sqrt{576x^{144}y^{36}}$

3) $\sqrt{891x^{17}y^{99}}$

Addition/Subtraction

4) $-7\sqrt{343} + 5\sqrt{175}$

5) $18\sqrt{192} - 10\sqrt{243} + 9\sqrt{507}$

6) $4\sqrt{468} - 8\sqrt{117}$

Multiplication:

7) $(-8\sqrt{8})(5\sqrt{60})$

8) $(-7\sqrt{6})(6\sqrt{32})$

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9) $-7\sqrt{2}(3\sqrt{216} - 4\sqrt{98})$

10) $(5 - 3\sqrt{10})(4 + 3\sqrt{10})$

Division:

11) $\frac{21\sqrt{288}}{48\sqrt{490}}$

12) $\frac{56\sqrt{72}}{42\sqrt{588}}$

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You can use the back for the scrap work for the Numerator and Denominator, but make sure answers are on the front:

$$13) \frac{3\sqrt{6}}{11-\sqrt{2}}$$

$$14) \frac{7-\sqrt{5}}{11+\sqrt{10}}$$

$$15) \frac{14+\sqrt{7}}{7+\sqrt{7}}$$