

## *Reducing Radicals:*

1)  $\sqrt{320}$

2)  $\sqrt{288}$

3)  $\sqrt{441}$

4)  $\sqrt{405}$

5)  $\sqrt{512x^{29}}$

6)  $\sqrt{125x^{32}}$

7)  $\sqrt{147x^{42}}$

8)  $\sqrt{625x^{13}}$

9)  $\sqrt{338x^{22}y^{11}}$

10)  $\sqrt{112x^{19}y^{31}}$

11)  $\sqrt{361x^{16}y^{100}}$

12)  $\sqrt{605x^{43}y^{21}}$

## *Addition/Subtraction*

13)  $4\sqrt{245} + 3\sqrt{180}$

14)  $6\sqrt{294} - 7\sqrt{216}$

15)  $6\sqrt{243} - 5\sqrt{363}$

*Due: Wednesday, 2/27/19*

Name \_\_\_\_\_

Alg2A Q3 Test 1 Review

Test: Thursday, 2/28/19

February 14, 2019  
Operations with Radicals

$$16) 3\sqrt{720} + 5\sqrt{845}$$

$$17) 13\sqrt{486} + 7\sqrt{96}$$

$$18) 4\sqrt{726} - 8\sqrt{384}$$

$$19) 8\sqrt{252} - 4\sqrt{343}$$

$$20) -12\sqrt{108} + 9\sqrt{192}$$

$$21) 18\sqrt{847} - 10\sqrt{448} - 9\sqrt{567}$$

$$22) 6\sqrt{150} + 3\sqrt{700}$$

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## *Multiplication:*

23)  $(-3\sqrt{6})(8\sqrt{18})$

24)  $(5\sqrt{12})(6\sqrt{24})$

25)  $9\sqrt{3}(6\sqrt{96} - 4\sqrt{48})$

26)  $-7\sqrt{5}(3\sqrt{250} - 4\sqrt{90})$

27)  $(10 - 5\sqrt{2})(4 - 3\sqrt{2})$

28)  $(5 - 3\sqrt{3})(9 + 5\sqrt{6})$

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$$29) (8 - 3\sqrt{6})(9 + 3\sqrt{6})$$

$$30) (-4 + 6\sqrt{2})(-4 - 6\sqrt{8})$$

*Division:*

$$31) \frac{9\sqrt{507}}{39\sqrt{486}}$$

$$32) \frac{21\sqrt{450}}{45\sqrt{245}}$$

$$33) \frac{18\sqrt{300}}{20\sqrt{216}}$$

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$$34) \frac{28\sqrt{250}}{15\sqrt{980}}$$

$$35) \frac{42\sqrt{605}}{33\sqrt{294}}$$

$$36) \frac{7\sqrt{96}}{4\sqrt{392}}$$

$$37) \frac{\sqrt{6}}{9-\sqrt{3}}$$

$$38) \frac{3\sqrt{3}}{11-\sqrt{5}}$$

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$$39) \frac{8 - \sqrt{5}}{4 + \sqrt{5}}$$

$$40) \frac{10 + \sqrt{6}}{7 - \sqrt{2}}$$

$$41) \frac{12 + \sqrt{3}}{9 - \sqrt{3}}$$

$$42) \frac{5 - \sqrt{3}}{8 - \sqrt{6}}$$

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