

ADVANCED GEOMETRY – SIMPLIFYING RADICALS

**Simplify. Write your answers in exact form!!**

1.)  $\sqrt{44}$

2.)  $\sqrt{63}$

3.)  $\sqrt{144}$

4.)  $\sqrt{338}$

5.)  $\sqrt{175}$

6.)  $\sqrt{24}$

7.)  $\sqrt{18}$

8.)  $\sqrt{72}$

9.)  $\sqrt{26}$

10.)  $\sqrt{80}$

11.)  $\sqrt{108}$

12.)  $\sqrt{70}$

13.)  $\frac{2}{\sqrt{3}}$

14.)  $\frac{6}{\sqrt{3}}$

15.)  $\sqrt{12}$

16.)  $\frac{6}{\sqrt{2}}$

17.)  $\frac{4\sqrt{3}}{\sqrt{3}}$

18.)  $\frac{6\sqrt{3}}{\sqrt{3}}$

19.)  $\frac{\sqrt{12}}{\sqrt{3}}$

20.)  $\frac{6\sqrt{2}}{\sqrt{3}}$

21.)  $\frac{\sqrt{48}}{\sqrt{3}}$

22.)  $\frac{\sqrt{75}}{\sqrt{3}}$

$$23.) \frac{\sqrt{18}}{\sqrt{3}}$$

$$24.) \frac{\sqrt{28}}{\sqrt{3}}$$

$$25.) \frac{\sqrt{63}}{\sqrt{3}}$$

$$26.) \frac{\sqrt{20}}{\sqrt{2}}$$

$$27.) \frac{8}{\sqrt{2}}$$

$$28.) \frac{\sqrt{100}}{\sqrt{2}}$$

$$29.) \frac{15}{\sqrt{3}}$$

$$30.) \frac{\sqrt{432}}{\sqrt{3}}$$

$$31.) \frac{2}{\sqrt{5}}$$

$$32.) \frac{100}{\sqrt{2}}$$

$$33.) \frac{\sqrt{32}}{\sqrt{12}}$$

$$34.) \frac{9}{\sqrt{3}}$$

$$35.) \frac{\sqrt{96}}{\sqrt{8}}$$

$$36.) \sqrt{242}$$

$$37.) \frac{\sqrt{22}}{\sqrt{2}}$$

$$38.) \sqrt{128}$$

$$39.) \frac{26}{\sqrt{2}}$$

$$40.) \frac{1}{\sqrt{2}}$$

$$41.) \frac{21\sqrt{7}}{\sqrt{3}}$$

$$42.) \frac{14\sqrt{150}}{7\sqrt{2}}$$