

Operations with Radical Expressions Exit Quiz

Perform the indicated operations and simplify your answer. Assume that all variables represent positive real numbers.

1. $\sqrt{\frac{12a^3}{6b}} + 4a\sqrt{\frac{3a}{6b}} =$

2. $\sqrt{\frac{a}{2}} + \frac{\sqrt{2a}}{2} =$

3. $\frac{\sqrt{7}}{3} + \frac{2}{\sqrt{7}} =$

4. $\sqrt{169z} - \sqrt{196z^3} - 12\sqrt{z} =$

5. MULTIPLE CHOICE: Show work!

The expression $(\sqrt{x} + \sqrt{y})^2$ is equivalent to:

a.) $(\sqrt{x} + \sqrt{y})(\sqrt{x} - \sqrt{y})$

b.) $x + y$

c.) $x + 2\sqrt{xy} + y$