

The expression can be rewritten as:

$$\frac{\sqrt{3x} + \sqrt{4 \cdot 3x}}{\sqrt{2}} = \frac{\sqrt{3x} + 2\sqrt{3x}}{\sqrt{2}} = \frac{3\sqrt{3x}}{\sqrt{2}}$$

This is not equal to  $\frac{3\sqrt{3x}}{1}$  because  $\sqrt{2}$  is not equal to 1.