

## Answer on Question #76386 – Math – Calculus

### Question

$$\lim_{x \rightarrow \infty} ((\sqrt{x} + (\sqrt{x} + \sqrt{x})) - \sqrt{x})$$

### Solution

$$\lim_{x \rightarrow \infty} ((\sqrt{x} + (\sqrt{x} + \sqrt{x})) - \sqrt{x}) = \lim_{x \rightarrow \infty} ((\sqrt{x} + \sqrt{x})) = \lim_{x \rightarrow \infty} (2\sqrt{x}) = \infty$$

As x approaches infinity, then x to a power can only get larger, so our limit will be infinity.

### Answer:

$$\lim_{x \rightarrow \infty} ((\sqrt{x} + (\sqrt{x} + \sqrt{x})) - \sqrt{x}) = \infty$$