

p.99 #54

Wednesday, August 31, 2016 1:47 PM

$$(54) \lim_{x \rightarrow c} [f(x) + g(x)] = 2$$

$$\lim_{x \rightarrow c} [f(x) - g(x)] = 1$$

$$\left. \begin{array}{l} \text{let } \lim_{x \rightarrow c} f(x) = a \\ \lim_{x \rightarrow c} g(x) = b \end{array} \right\}$$

$$\begin{array}{r} a + b = 2 \\ + a - b = 1 \\ \hline 2a = 3 \\ a = \frac{3}{2} \end{array}$$

$$\boxed{\lim_{x \rightarrow c} f(x) = \frac{3}{2}}$$

$$\begin{array}{r} \frac{3}{2} + b = 2 \\ b = \frac{1}{2} \end{array}$$

$$\boxed{\lim_{x \rightarrow c} g(x) = \frac{1}{2}}$$