

$$\left[f(x) + g(x) \right]^{1} = f(x) + g(x)$$

$$\left[f(x) + g(x) \right]^{1} = \lim_{k \to 0} \frac{\left[f(x+k) + g(x+k) \right] - \left[f(x) + g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \lim_{k \to 0} \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \lim_{k \to 0} \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \lim_{k \to 0} \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \lim_{k \to 0} \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \lim_{k \to 0} \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \lim_{k \to 0} \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+k) - f(x) \right] + \left[g(x+k) - g(x) \right]}{k} = \lim_{k \to 0} \frac{\left[f(x+$$