$$\frac{\int_{a^{2}+ab+b^{2}} d^{2} + \int_{a^{2}-b^{2}} d^{2} + \int_{a^{2}-b^{2}} d^{2}}{2} + \int_{a^{2}-b^{2}-b^{2}} d^{2} + \int_{a^{2}-b^{2}-b^{2}-b^{2}} d^{2} + \int_{a^{2}-b^{$$

$$6b$$

$$64b+(=0) = 3 = -(b+c)$$

$$63+b^{3}+c^{3}=3abc$$

$$-(b+c)^{3}+b^{3}+c^{3}=-(b^{3}+b^{2}c+b^{2}b^{2}c+b^{2}b^{2}c+c^{3})+b^{3}+c^{3}$$

$$=)-b^{3}-3b^{2}c-3b^{2$$

$$E(x,y) = \frac{x^{3}-x-y^{3}+y+x-y^{2}-x^{2}y}{x^{3}+x-y^{3}-y+x-y^{2}-x^{2}y}$$

$$-y^{3}-x-y^{3}+y+xy^{2}-x^{2}y=(x^{3}-y^{3})-(x-y)-(x-y)xy$$

$$=y(x-y)(x^{2}+xy+y^{2}-1-xy)=(x-y)(x^{2}+y^{2}-1)$$

$$-y^{3}+x-y^{2}-y+x-y^{2}-x^{3}y=(x^{3}-y^{3})+(x-y)-(x-y)xy$$

$$=y(x-y)(x^{2}+xy+y^{2}+1-yy)=(x-y)(x^{2}+y^{2}-1)$$

$$E(x-y)(x^{2}+y^{2}+1-yy)=(x-y)(x^{2}+y^{2}-1)$$

$$E(x-y)(x^{2}+y^{2}+1)=\frac{x^{2}+y^{2}-1}{(x-y)(x^{2}+y^{2}+1)}=\frac{x^{2}+y^{2}-1}{x^{2}+y^{2}+1}$$

$$=\frac{\left(\frac{k(1-z^{2})}{1+z^{2}}\right)^{2}+\left(\frac{2k}{1+z^{2}}\right)^{2}-1}{\left(\frac{k(1-z^{2})}{1+z^{2}}\right)^{2}}=\frac{2kZ}{1+z^{2}}$$

$$=\frac{\left(\frac{k(1-z^{2})}{1+z^{2}}\right)^{2}+\left(\frac{2k}{1+z^{2}}\right)^{2}-1}{\left(\frac{k(1-z^{2})}{1+z^{2}}\right)^{2}}=\frac{\frac{k^{2}(1-2z^{2}+z^{2})+4k^{2}z^{2}}{1+2z^{2}+z^{2}}-1}{1+2z^{2}+z^{2}}$$

$$=\frac{k^{2}(1-2z^{2}+z^{2})+4k^{2}z^{2}}{1+2z^{2}+z^{2}}+1$$

$$=\frac{k^{2}-1}{k^{2}(1-2z^{2}+z^{2})+4k^{2}z^{2}}$$

$$=\frac{k^{2}-1}{k^{2}(1-2z^{2}+z^{2})+4k^{2}z^{2}}$$

$$f(x) = \frac{1-x}{1+x}$$

$$g(x) = \frac{1+x}{1-x}$$

$$f(g(x)) = f(\frac{1+x}{1-x}) = \frac{1-\frac{1+x}{1-x}}{1+\frac{1+x}{1-x}} = \frac{\frac{1-x-1-x}{1-x}}{\frac{1-x+1+x}{1-x}} = \frac{-2x}{2} = -x$$

$$g(f(x)) = g(\frac{1-x}{1+x}) = \frac{1+\frac{1-x}{1-x}}{1-\frac{1-x}{1+x}} = \frac{1+x+1-x}{1+x} = \frac{2}{2x} = \frac{1}{x}$$

$$f(g(x)) = g(\frac{1-x}{1+x}) = \frac{1+\frac{1-x}{1+x}}{1-\frac{1-x}{1+x}} = \frac{1+x+1-x}{1+x} = \frac{2}{2x} = \frac{1}{x}$$

$$f(g(x)) = g(\frac{1-x}{1+x}) = \frac{1+\frac{1-x}{1+x}}{1-\frac{1-x}{1+x}} = \frac{1+x+1-x}{1+x} = \frac{2}{2x} = \frac{1}{x}$$

$$f(g(x)) = g(f(x)) + g(f(x)) + 1 = -x + \frac{1}{x} + 1 = -1 + 1 = 0$$

$$f(g(x)) = g(f(x)) + \frac{1-x}{1+x} = \frac{1+x+1-x}{1+x} = \frac{2}{x+x-1+x} = \frac{1-x+1-x}{1+x} = \frac{1-x+1-x}{1$$

$$\frac{\sqrt{12c}}{\sqrt{12c}} \left( \sqrt{3c} + \sqrt{\frac{1}{3c}} + \sqrt{\frac{1}{3c}}$$

$$E(x,y) = \begin{pmatrix} x^{\frac{7}{4}} - \frac{5}{5\sqrt{y}} \\ \frac{1}{2} - y^{-\frac{7}{3}} \end{pmatrix} - 5 \frac{x^{\frac{7}{4}} - y^{-\frac{7}{4}}}{x^{\frac{7}{3}} - y^{\frac{7}{4}}} \end{pmatrix} - \frac{69x}{3x^{-3}y} \qquad |ogy(x) = 6 = 6x$$

$$b = 6y$$

$$\begin{vmatrix} \frac{1}{5\sqrt{x}} - \frac{5}{5\sqrt{y}} \\ \frac{1}{2\sqrt{x}} - \frac{1}{2\sqrt{y}} \\ \frac{1}{2\sqrt{x}} - \frac{1}{2\sqrt{y}} \end{vmatrix} = \frac{1}{2\sqrt{x}} - \frac{1}{2\sqrt{x}} = \frac{1}{2\sqrt{x}} = \frac{1}{2\sqrt{x}} - \frac{1}{2\sqrt{x}} = \frac{$$

$$\begin{array}{l}
195 \\
\times_{0} = 3 \\
P(x) = 2x^{3} - 4x^{2} - 18 \\
P(3) = 2 \cdot 3^{3} - 43^{2} - 18 = 2 \cdot 27 - 4 \cdot 9 - 18 = 56 - 36 - 18 = 0
\end{array}$$

$$\begin{array}{l}
P(x) - P(3) = 2x^{3} - 4x^{2} - 18 - (2 \cdot 3^{3} - 43^{2} - 18) \\
= 2(x^{3} - 3^{3}) - 4(x^{2} - 3^{2}) - 18 + 18 \\
= 2(x - 3)(x^{2} + 3x + 9) - 4(x - 3)(x + 3) \\
= (x - 3)(2x^{2} + 6x + 18 - 4x - 12) \\
= (x - 3)(2x^{2} + 6x + 18 - 4x - 12)
\end{array}$$

$$\begin{array}{l}
\sqrt{9} \\
\sqrt{8} = -1 \\
P(x) = 2x^{5} - 5x^{3} - 6x^{2} + 3x + 2 \\
P(-1) = 2 + 5 - 6 - 3 + 2 = 0 \\
P(x) - P(-1) = 2(x^{5} - 1) - 5(x^{3} + 1) - 6(x^{2} - 1) + 3(x + 1) + 2 - 2 \\
= 2(x - 1)(x + 1)(x^{2} + 1) - 5(x + 1)(x^{2} - x + 1) - 6(x - 1)(x + 1) + 3(x + 1) \\
= (x + 1)(2x^{3} + 2x - 2x^{2} - 2 - 5x^{2} + 5x - 5 - 6x + 6 + 3) \\
= (x + 1)(2x^{3} - 7x^{2} + x + 2)
\end{array}$$

$$2x^{2}+x+4$$

$$(x+3)(2x-5) = 2x^{2}+6x-5x-15 = 2x^{2}+x-15$$

$$4 = -15$$

$$4 = -15$$