$$\frac{46}{116})\ \lim_{x\to\infty}\left(\sqrt[3]{x^3+x^2}-x\right)\frac{\left(\sqrt[3]{x^3+x^2}\right)^2+x\sqrt[3]{x^3+x^2}+x^2)}{\left(\sqrt[3]{x^3+x^2}\right)^2+x\sqrt[3]{x^3+x^2}+x^2)}=\lim_{x\to\infty}\frac{x^3+x^2-x^3}{\sqrt[3]{(x^3+x^2)^2}+x\sqrt[3]{x^3+x^2}+x^2}=\lim_{x\to\infty}\frac{x^2}{\sqrt[3]{(x^3+x^2)^2}+x\sqrt[3]{x^3+x^2}+x^2}$$

$$=\sqrt[3]{\frac{\frac{x^2}{x^2}}{\frac{x^6+2x^5+x^4}{x^6}+\frac{x}{x}\sqrt{\frac{x^3+x^2}{x}}+\frac{x^2}{x^2}}}=$$

$$\frac{1}{1+1+1}=\frac{1}{3}$$