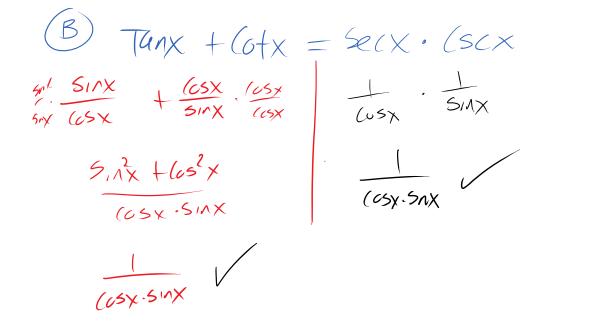
5.2 proving The Identities () The goal is to prove 2 expressions equivalent. (2) stort with the more complicated side and reverk until I get stuck. Then, if recessary, I reverk the other side. A) $(0S^{3}X = (1-S_{n}x)(0SX)$ $(us^{2}x(Losx))$ CUS3X



 $\bigcirc (05x (tanx + sinx (otx)) = sinx + cos^2 x$ $\left(OS_{X}\left(\frac{Sin_{X}}{GS_{X}}+\frac{Syn_{X}}{Syn_{X}}\right)\right)$ $(05x) \left(\frac{5inx}{5inx} + insx \right)$

 $(os_{X} \left(\frac{S_{I}n_{X}}{cos_{X}} + cos_{X} \right)$ $|Sinx + Cos^2x| \neq$ 01 $\frac{1}{Cy5x}\left(\frac{5inx+cos^{2}x}{cu5x}\right)$