King **F**ahd **U**niversity for **P**etroleum and **M**inerals
Department of Mathematics & Statistics
Term 131 Math 102 (09) Quiz#3 (7.1, 7.2 and page 453)
Family Name: S.r#

Q1. If $\tanh(x)=\frac{4}{5}$, find the value of $\cosh(x)$ and $\operatorname{csch}(x)$

Q2. Evaluate $\coth(\ln x)$ by using the definition of the hyperbolic function:

Q3. Evaluate the integrals;

i. $\int \frac{dx}{x}$

ii. $\int \frac{dx}{x^2+2}$

iii. $\int \left(\cot x + 3^x\right) dx$

iv. $\int \frac{dx}{\sqrt{9-x^2}}$