RECITATION 5

NAME:

Problem 1.
$$\int_0^{\pi/3} \frac{\cos^2 x}{\sqrt{1+\sin x}} dx$$

Problem 2.
$$\int \sec^3(4x) \tan(4x) dx$$

Problem 3.
$$\int_0^{\pi/4} \frac{4 \cot^2(x)}{\csc^2(x)}$$
 (try to see if there is any direct simplification without any use of identities)

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Problem 4. $\int \frac{dx}{\sqrt{36+x^2}}$

Problem 5. $\int \frac{x^2 dx}{\sqrt{9-16x^2}}$

Problem 6.
$$\int \frac{(x^2-4)^{3/2}}{x} dx$$