Problems 1.6 Page 71  63, 65
Q5 11am

Q5 11am Covers Inverse Trig, §1.6 and Class Notes
Info

Practice Q5 11am

a) \[ \int \frac{x^2 + x}{x^2 + 3} \, dx \]
b) \[ \int \frac{x^3 + x^2 + x + 1}{x^2 + 2x + 2} \, dx \]

a) \[ \int \frac{x^2}{x^2 - 2x + 2} \, dx \]
b) \[ \int \frac{x^3 + x^2 + x}{2x + 3} \, dx \]

Break Info
There will be class on M Nov 21 and T Nov 22
There will be no class on WThF Nov 23-24-25

More 6.1 Page 427 1, 5, 13, 15, 27
6.2 Page 438 54, 55, 57 (Instructions are above #47)

1) Compute
\[ \int \frac{\sin x}{\cos^2 x} \, dx \]
\[ \int_0^1 x\sqrt{1 - x^2} \, dx \]

2) Compute the area bounded by the curves \( f(x) = x^4 + x^3 - x \) and \( g(x) = x^3 + x^2 - x \).

6) Integrate; simplify your answers
\[ \int_0^{\ln 2} \sinh(x) + \cosh(x) \, dx \]
\[ \int_0^1 \frac{x}{(x + 1)^2} \, dx \]

7) If \( -\frac{\pi}{2} \leq x \leq \frac{\pi}{2} \), find the area between \( \sin x \), \( \cos x \).