Assignment 5 (1/13)

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Problem 1

Find the integrals of the following functions:

- (a) $\frac{x+3}{x^2-3x+2}$
- (b) $\frac{x^3 + 4x^2 4x 1}{(x^2 + 1)^2}$
- (c) $\frac{1}{x^4+4}$
- (d) $\frac{1}{a^2-x^2}$
- (e) $\frac{1}{x(a+bx)^2}$
- (f) $x^3 \arctan(x)$
- (g) $\frac{\sqrt{4+x^2}}{x} \frac{x}{\sqrt{4+x^2}}$
- (h) $\frac{1}{x^3-a^3}$