

60. Because $\frac{x+1}{\sqrt{x}(x^2+1)} \leq \frac{1}{x^{3/2}}$ on $[1, \infty)$ and

$\int_1^{\infty} \frac{1}{x^{3/2}} dx$ converges by Exercise 49,

$\int_1^{\infty} \frac{x+1}{\sqrt{x}(x^2+1)} dx$ converges.