

M417

Fall 1996

hw13.tex due Nov 20, 1996

1. Find $\int_0^\infty \frac{t^{s-1}}{1+t^2} dt$, $0 < \operatorname{Re} z < 1$.

2. $\int_0^\infty \frac{t^{s-1}}{(t - \cos \theta)^2 + \sin^2 \theta} dt$, $0 < \operatorname{Re} z < 1$.