Assignment 4 MAT 458

Q4: Let  $E=\{x:|f(x)|>1\}$ . We have that  $\mu(X)+\mu(E)\leq 1$ . By chebyshevs inequality, we have that  $\mu(E)<\frac{1}{10}$ . Therefore  $\mu(X)\geq \frac{9}{10}$ .