11/6/2001	MA430 Theory of Prob/Stats I	Name:
Dr. Lunsford	Quiz 8	(20 Points Total)

I. Suppose Z is a standard normal random variable. Please find the indicated probabilities and show these probabilities graphically on the graphs of the normal p.d.f.'s below. (4 points each)

- (a) P(Z < -1.56)(b) $P(-.79 \le Z \le 1.52)$ Graph for part (a) Graph for part (a)
- (c) Find a number c such that $P(Z \ge c) = .0069$



(a) Find P(63 < X < 79). Show the probability graphically on the graph of the pd.f given below. (5 points)





-3 -2 -1 0 1 x 2 3 Graph for part (b)

0.2

10

