Math 104-Quiz 12
Name $\qquad$

1. (1 pt.) If $Z=-1$, then $A(Z)=$
2. ( 1 pt.) If $A(Z)-0.0122$, then $Z=$
3. If $Z$ is the random variable for the standard normal distribution, then
a. (1 pt.) $\operatorname{Pr}(Z \leq-1)=$
b. (1 pt.) $\operatorname{Pr}(Z \geq 1)=$
c. (1 pt.) $\operatorname{Pr}(-2 \leq Z \leq 1)=$
4. (1 pt.) The 60th percentile of the standard normal distribution is
5. ( 1 pt.) For the standard normal distribution, $\frac{3}{4}$ is at what percentile?
6. If $X$ is a random variable having a normal distribution with mean $\mu=50$ and standard deviation $\sigma=10$, then
a. (1 pt.) $\operatorname{Pr}(X \leq 70)=$
b. (1 pt.) $\operatorname{Pr}(X \geq 50)=$
c. (1 pt.) $\operatorname{Pr}(50 \leq x \leq 70)=$
