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.
$$(1 \text{ pt.}) \text{ Pr}(Z \le -1) =$$

b. (1 pt.)
$$Pr(Z \ge 1) =$$

c. (1 pt.)
$$Pr(-2 \le Z \le 1) =$$

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 μ = 50 and standard deviation σ = 10, then

a. (1 pt.)
$$Pr(X \le 70) =$$

b. (1 pt.)
$$Pr(X \ge 50) =$$

c. (1 pt.)
$$Pr(50 \le X \le 70) =$$