

Math 222: Basic Statistics Practice Problems #3

Week #8

- The Standard Normal Distribution Z :
 - (1) $P(0 < Z < 1.32)$
 - (2) $P(Z > 1.96)$
 - (3) $P(Z < 1.30)$
 - (4) $P(.78 < Z < 2.58)$
 - (5) $P(-3 < Z < 0)$
 - (6) $P(-3 < Z < 3)$
 - (7) $P(Z < -1.43)$
 - (8) $P(-2.33 < Z < 1.86)$
- Another normal distribution X with $\mu = 170$, $\sigma = 5$
 - (1) $P(170 < X < 175)$
 - (2) $P(X < 174)$
 - (3) $P(X > 180)$
 - (4) $P(165 < X < 175)$
 - (5) $P(159 < X < 168)$

- The Standard Normal Distribution Z :

- (1) .4066
- (2) .0250
- (3) .9032
- (4) .2128
- (5) .4987
- (6) .9974
- (7) .0764
- (8) .9587

- Another normal distribution X with $\mu = 170$, $\sigma = 5$

- (1) .3413
- (2) .7881
- (3) .0228
- (4) .6826
- (5) .3307