quiz 16
math2228
u new haven
mon 4 nov

name: solution

1. Find the proportion of observations from a standard Normal distribution for the following *(2 points each)*

(a) $Z \leq -1.4$
(b) $Z \geq -1.4$
(c) $Z > 2.0$
(d) $-1.4 < Z < 2.0$

(a) $P(Z \leq -1.4) = 0.0808$

(b) $P(Z \geq -1.4) = 1 - P(Z \leq -1.4) = 1 - 0.0808 = 0.9192$

(c) $P(Z > 2.0) = 1 - P(Z < 2.0) = 1 - 0.9772 = 0.0228$

(d) $P(-1.4 < Z < 2.0) = P(Z < 2.0) - P(Z < -1.4)$
$= 0.9772 - 0.0808$
$= 0.8964$