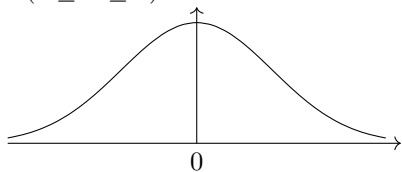


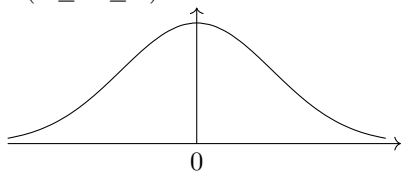
問 1 確率変数 Z が標準正規分布に従うとき、次の確率を求めよ。

(1) $P(0 \leq Z \leq 1)$



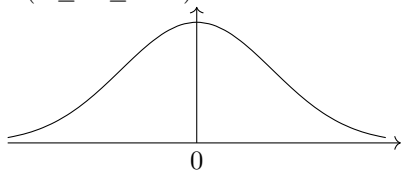
答

(2) $P(0 \leq Z \leq 2)$



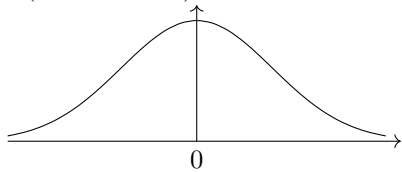
答

(3) $P(0 \leq Z \leq 0.23)$



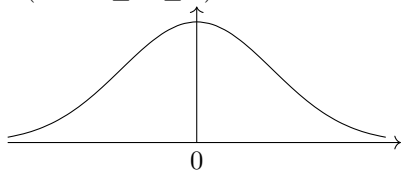
答

(4) $P(0 \leq Z \leq 1.39)$



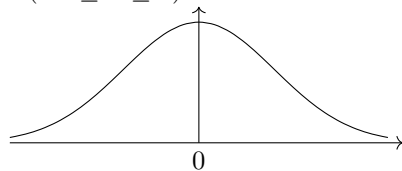
答

(5) $P(-1.25 \leq Z \leq 0)$



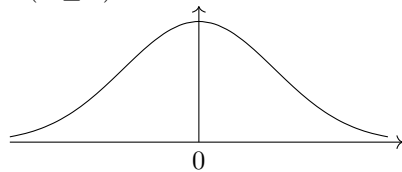
答

(6) $P(-1 \leq Z \leq 1)$



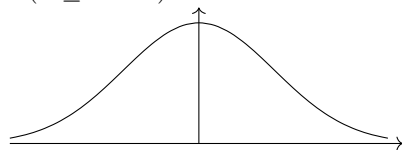
答

(7) $P(Z \leq 2)$



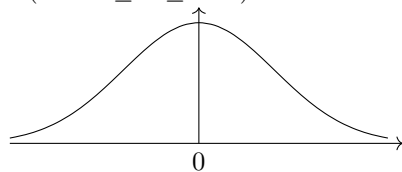
答

(8) $P(Z \leq -0.25)$



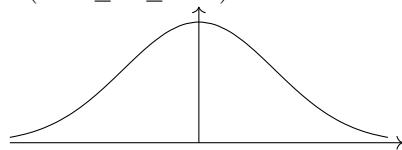
答

(9) $P(-0.77 \leq Z \leq 1.02)$



答

(10) $P(0.50 \leq Z \leq 1.21)$

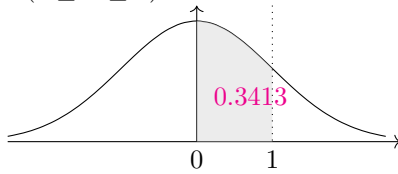


答

*****【解答】*****

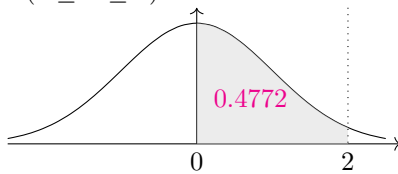
問 1 確率変数 Z が標準正規分布に従うとき、次の確率を求めよ。

(1) $P(0 \leq Z \leq 1)$



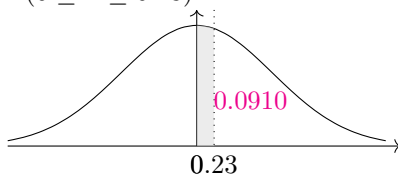
答 0.3413

(2) $P(0 \leq Z \leq 2)$



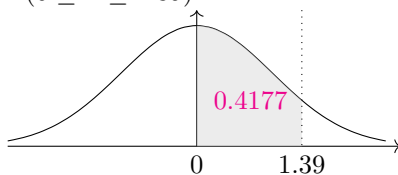
答 0.4772

(3) $P(0 \leq Z \leq 0.23)$



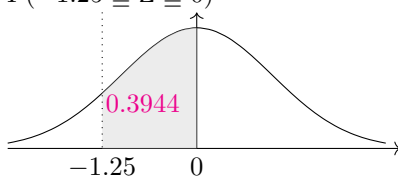
答 0.0910

(4) $P(0 \leq Z \leq 1.39)$



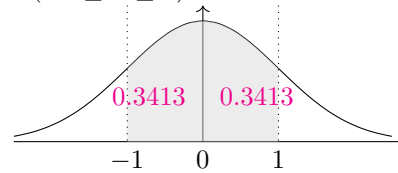
答 0.4177

(5) $P(-1.25 \leq Z \leq 0)$



答 0.3944

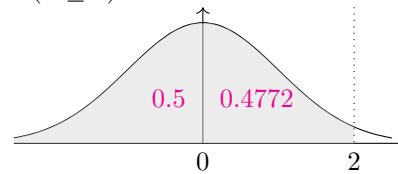
(6) $P(-1 \leq Z \leq 1)$



$$P(-1 \leq Z \leq 1) = 0.3413 + 0.3413 = 0.6826$$

答 0.6826

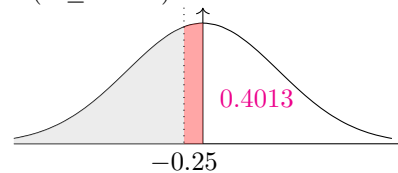
(7) $P(Z \leq 2)$



$$P(Z \leq 2) = 0.5 + 0.4772 = 0.9772$$

答 0.9772

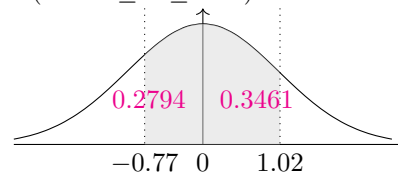
(8) $P(Z \leq -0.25)$



$$P(Z \leq -0.25) = 0.5 - 0.0987 = 0.4013$$

答 0.4013

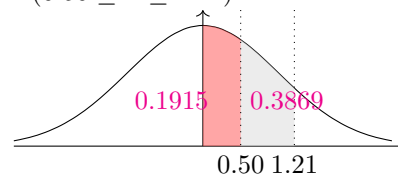
(9) $P(-0.77 \leq Z \leq 1.02)$



$$P(-0.77 \leq Z \leq 1.02) = 0.2794 + 0.3461 = 0.6255$$

答 0.6255

(10) $P(0.50 \leq Z \leq 1.21)$



$$P(0.50 \leq Z \leq 1.21) = 0.3869 - 0.1915 = 0.1954$$

答 0.1954