## Quiz \#6

To compute the solutions, you can use the commands pnorm and qnorm in R. Please, write legibly and report the R command you use with all parameters. Please round your numerical solutions to 3 decimal digits.
(1) [5 Pts] Let $X$ be a normal random variable with mean 5 and standard deviation 2 . Calculate the following probabilities
(a) $P(X>4)$;
(b) $P(|X-5| \leq 2)$;
(2) [5 Pts] Determine the value of the constant $c$ such that
(a) $P(0 \leq Z \leq c)=0.360$;
(b) $P(|Z| \leq c)=0.120$;

