

1. Let  $X_1$  and  $X_2$  be two independent random variables.  $X_1$  is normal  $N(1, 4)$  and  $X_2$  is normal  $N(1, 2)$ . Compute  $c$  such that

$$P\{X_1 - X_2 \leq c\} = .05$$

using one of the enclosed tables.