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Time: 20 mins

Name:

Std. Number:

## Quiz 1

### Questions

1. Let  $X$  and  $Y$  be two independent  $\text{Uniform}(0,1)$  random variables. Let also  $Z=\max(X,Y)$  and  $W=\min(X,Y)$ . Find  $\text{Cov}(Z,W)$ .