$\frac{ \begin{array}{c} Columbia \ University \\ \underline{Quiz \ 3 - Summer \ 2015} \\ \underline{Intro \ to \ Stat} \end{array}}{ \underline{Intro \ to \ Stat}}$

Instructor: Wei Wang

Student's name:	UNI:
Q.1) If two independent random variable of random variables $X + Y$ and $X - Y$?	oles $X \sim N(0, 1), Y \sim N(1, 1)$, what are the distribution
Q.2) If two random variables X and Y ha $\rho(X,Y)=.7$, what is $\mathrm{Cov}(2X,Y)$ and $\rho(X,Y)=.7$	ave covariance $Cov(X,Y)=2.5$ and correlation coefficient $2X,Y)$?