In Class

Explore:

Ex. 1

a.) If P(Q) = 0.5 and P(R) = 0.3 and P(QR) = 0.75, are Q and R independent?

b.) If P(B) = 0.6 and P(C) = 0.3 and P(BC) = 0.72, are B and C independent?

Ex. 2

If $P\left(A\right)=0.4$, $P\left(A∪B\right)=0.9$, and $P\left(A∩B\right)=0.1$, find $P(B)$.

Ex. 3

*A* and *B* are mutually exclusive events.

If $P\left(B\right)=0.45$ and $P\left(A∪B\right)=0.8$, find $P(A)$

Ex. 4

Suppose $P\left(A\right)=\frac{2}{5}$, $P\left(A\right)=\frac{1}{3}$ , and $P\left(A'\right)=\frac{1}{4}$ find

a.)$P\left(B\right)$

b.)$P(A∩B^{'})$