**2D Probability Formulae**

1. A and B are two events, such that $P\left(A\right)=0.6$, $P\left(B\right)=0.7$ and $P\left(A∪B\right)=0.9$.

Find $P(A∩B)$.

1. $C$ and $D$ are two events such that $P(C)=0.2$, $P(D)=0.6$ and $P(C|D)=0.3$.

Find:

1. $P(C∩D)$
2. $P(D|C)$
3. $P(C∪D)$