

17) A = event of drawing ace
 H = event of drawing a heart

$$\begin{aligned} P(A \cup H) &= P(A) + P(H) - P(A \cap H) \\ &= \frac{1}{13} + \frac{13}{52} - \left[\frac{1}{52} \right] \\ &= \frac{16}{52} = \frac{4}{13} \\ &= 0.307692 \end{aligned}$$