

$$6. \quad a) \quad P(\text{DIAMOND OR KING})$$

$$= \frac{13}{52} + \frac{4}{52} - \frac{1}{52} = \frac{16}{52} = 0.3077$$

$$b) \quad P(\text{ACE OR QUEEN})$$

$$= \frac{4}{52} + \frac{4}{52} = \frac{8}{52} = 0.1538$$

$$c) \quad P(\text{CLUBS OR HEARTS})$$

$$= \frac{13}{52} + \frac{13}{52} = 0.5$$

$$d) \quad P(\text{RED OR QUEEN})$$

$$= \frac{26}{52} + \frac{4}{52} - \frac{2}{52} = \frac{28}{52} = 0.5385$$

$$7. \quad a) \quad P(F) = \frac{89}{115}$$

$$b) \quad P(24-26) = \frac{30}{115}$$

$$c) \quad P(21-23 \text{ AND } \text{GMCLE} +) = \frac{10}{115}$$

$$d) \quad P(18-20 \text{ OR } \text{FALEBND})$$

$$\frac{55}{115} + \frac{80}{115} - \frac{50}{115} = \frac{85}{115}$$