2.4 Denote the events,

$$C = \{ \text{ knows C/C++ } \}, \quad F = \{ \text{ knows Fortran } \}.$$

Then

(a) $\boldsymbol{P}\{\bar{F}\} = 1 - \boldsymbol{P}\{F\} = 1 - 0.6 = \boxed{0.4}$

(b) $$\begin{aligned} \boldsymbol{P}\{\bar{F} \cap \bar{C}\} &= 1 - \boldsymbol{P}\{F \cup C\} = 1 - (\boldsymbol{P}\{F\} + \boldsymbol{P}\{C\} - \boldsymbol{P}\{F \cap C\}) \\ &= 1 - (0.7 + 0.6 - 0.5) = 1 - 0.8 = \boxed{0.2} \end{aligned}$$

(c) $\boldsymbol{P}\{C \backslash F\} = \boldsymbol{P}\{C\} - \boldsymbol{P}\{F \cap C\} = 0.7 - 0.5 = \boxed{0.2}$