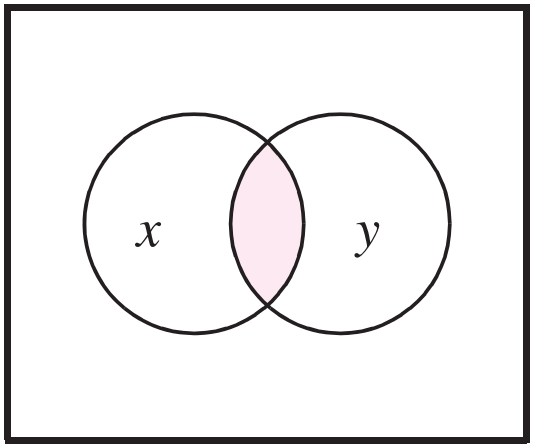
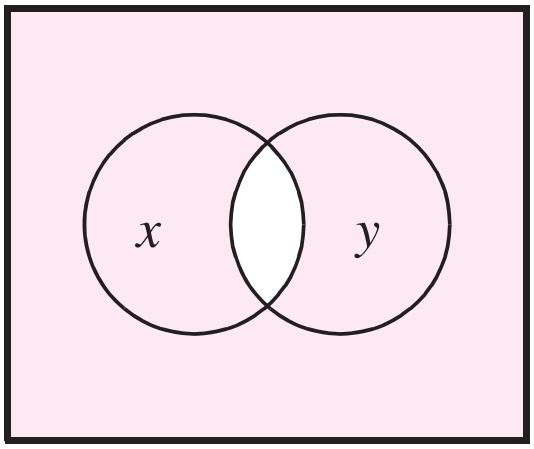
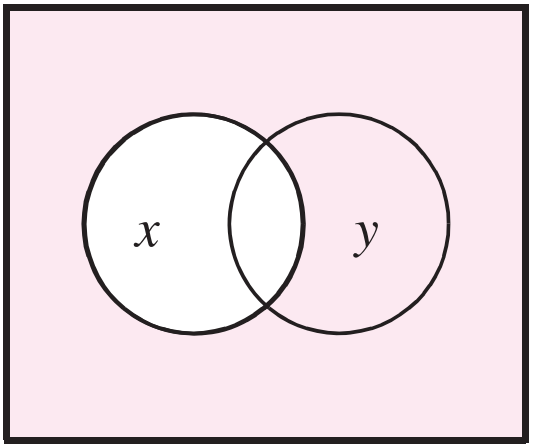


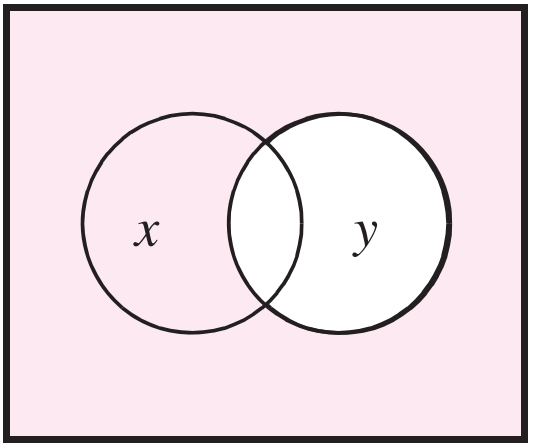

(a) $x \cdot y$



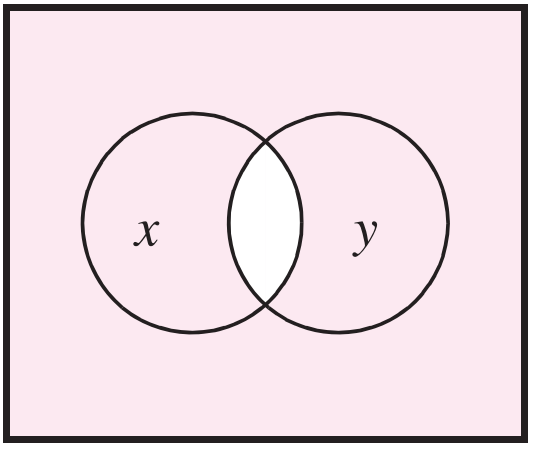

(b) $\overline{x \cdot y}$




(c) $\bar{x}$




(d) $\bar{y}$




(e) $\bar{x} + \bar{y}$

**Figure 2.18** Proof of DeMorgan's theorem 15*a*.