

Figure 16.5: This graph implies that $E(a, b, c, d, e, f)$ can be written as $E_{a,b}(a, b) + E_{b,c}(b, c) + E_{a,d}(a, d) + E_{b,e}(b, e) + E_{e,f}(e, f)$ for an appropriate choice of the per-clique energy functions. Note that we can obtain the ϕ functions in figure 16.4 by setting each ϕ to the exponential of the corresponding negative energy, e.g., $\phi_{a,b}(a, b) = \exp(-E(a, b))$.