Solution (#1642) (i) $y = Ae^x + Be^{-x}$.

(ii) $y = A\sin 2x + B\cos 2x$.

(iii) $y = Ae^{-x} + Be^{-2x}$.

(iv) $y = e^{-x}(A\cos\sqrt{2}x + B\sin\sqrt{2}x)$.