# UpperMark

# Level I FormulaSheet Sample

| Chapter 6 (cont.) | |
|---|---|
| Black-Scholes Call Option Price | $c = S\,N(d_1) - K e^{-rT}\,N(d_2)$   (G) |
| | $d_1 = \dfrac{\left[\ln\left(\dfrac{S}{Ke^{-rT}}\right)\right]}{v} + \dfrac{v}{2},\ d_2 = d_1 - v,\ v = \sigma_s\sqrt{T}$ (G) |
| Black Call Option Price on a Forward | $c = F\,N(d_1) - K\,N(d_2)\ e^{-rT}$   (G) |
| | $d_1 = \dfrac{\ln(F/K)}{v} + \dfrac{v}{2},\ d_2 = d_1 - v$   (G) |
| Currency Option Price | $S_A e^{-r_A T}\,N(d_1) - S_B e^{-r_B T}\,N(d_2)$   (G) |
| Elasticity: $\dfrac{\partial x}{\partial y}\dfrac{y}{x}$ | Lambda/omega: $\dfrac{\partial c}{\partial S}\dfrac{S}{c} = \text{delta}\ \times\dfrac{S}{c}$ |