

SU 2012

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+1.15a

$$3. \times^3 \left(NPV = -5,000,000 + \left(\frac{150,000}{r(\frac{1}{2}) - .01} \right) \left(1 - \left(\frac{1.01}{1+r(\frac{1}{2})} \right)^{79} \right) \left(\frac{1}{1+r(\frac{1}{2})} \right)^{79} \right) \quad (42)$$

$$+6 \left(r(1) = .0005 + 1.5(.07) = .1055 \right) \quad (43)$$

$$+6 \left(r(\frac{1}{2}) = (1+r(1))^{\frac{1}{2}} - 1 \right) \quad (44)$$

$$4. +3 C = S(N(d_1)) - PV(K)N(d_2)$$

$$+3 d_1 = \frac{\ln\left(\frac{S}{PV(K)}\right) + \frac{\sigma\sqrt{T}}{2}}$$

$$+3 d_2 = d_1 - \sigma\sqrt{T}$$

$$S = \left(\frac{50,000}{r(\frac{1}{2})} \right) \left(1 - \left(\frac{1}{1+r(\frac{1}{2})} \right)^{36} \right) \left(\frac{1}{1+r(1)} \right)^3 \quad (45)$$

$$+3 \left(r(1) = .0005 + 1.9(.07) = .1335 \right) \quad (46)$$

$$+3 \left(r(\frac{1}{2}) = (1+r(1))^{\frac{1}{2}} - 1 \right) \quad (47)$$

$$+3 \left(PV(K) = \frac{2,000,000}{(1.0033)^{376}} \right) \quad (48)$$

$$\sigma = .58$$

$$T = 3$$

$N(d_1)$ + $N(d_2)$ from tables or Excel