Black Scholes
Stock Price = So = \$40
Strike Price = K = \$45
Time (in years) = T = 4/12 = 0.33
Risk free rate = r = 0.03
Standard deviation = 0 = 0.4
N-> Hormal distribution
Co = So M(di) - Kert M(d2)
$d_1 = \ln(\frac{50}{k}) + (r + \frac{07}{2}) \times \overline{1}$
O JT
$d_2 = d_1 - \sigma \sqrt{7}$
(140)
$d_1 = \ln(40/45) + (0.03 + (0.4)^2/2) \times 0.33$
0.4×J0.33
(8)34.0)
$= \ln(0.8889) + (0.03 + 0.08) \times 0.33$
0.4 x 0.5745
= -0.1178 +0.0363
0.2298
= -0.0815
0.2298
:. d1= -0.3547

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