$S =$ 40 (current stock Price)
$K =$ 45 (strike price of the call)
$r =$ annual continously compounded risk free Interest rate
$\sigma =$ stock's volatility
$N(x)$
$T =$ time to maturity of the call
$B = K \cdot e^{-rT}$

$\therefore$

$S = \$40$, $B = 45e^{(-0.03(1/3))} = 44.55224$

Note that 1/3 is the time to maturity 4/12 months

$$\Rightarrow x_1 = \frac{\log(S/B)}{\sigma\sqrt{T}} + \frac{1}{2}\sigma\sqrt{T}$$

$$= \frac{\log(40/44.55224)}{0.4\sqrt{1/3}} + \frac{1}{2}\left(0.4\left(\sqrt{1/3}\right)\right)$$

$$= -0.3512442$$

$$\Rightarrow x_2 = \frac{\log(S/B)}{\sigma\sqrt{T}} - \frac{1}{2}\sigma\sqrt{T}$$

$$= -0.5821843$$

$\therefore N(x_1) = 0.3627026$, $N(x_2) = 0.2802213$

$\therefore$ Black-Scholes call price, c

$$\Rightarrow c = S(N(x_1)) - B(N(x_2))$$

$$= 40 \times 0.3627026 - 44.55224 \times 0.2802213$$

$$= \$2.023617$$