

**Answer on Question #37671 – Math - Other**

To find it use put-call parity:

$$C(t) - P(t) = S(t) - K \cdot e^{-rt},$$

where

$C(t)$  is the value of the call at time  $t$ ,

$P(t)$  is the value of the put,

$S(t)$  is the current price of the stock,

$K$  is the strike price,

$r$  is the annual risk-free rate.

We have  $C = \$7.2, S = \$50, K = \$55, r = 0.06, t = 1$ . So

$$7.2 - P = 50 - 55 \cdot e^{-0.06 \cdot 1}$$

$$P = 7.2 + 1.797$$

$$P = 8.997 \approx 9$$

**Answer:** the value of a put option is \$9.