

## Asymmetric Power Option

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$$C_T = \max(S_T^p - K, 0)$$

$$P_T = \max(K - S_T^p, 0)$$

The asymmetric power option has a payoff which is depended of the underling price at expiration to a certain power.

### Symbol list:

$C_T$	Value of the vanilla call option at expiration
$P_T$	Value of the vanilla put option at expiration
$S_T$	Value of the underlying asset at expiration
$S_T^p$	Value of the underlying asset at expiration to the power of p
K	Strike (exercise) price
T	Expiration date