

· short sale } CAP.

The payoff of the cap:
$$-S(T) + (S(T)-K) = \begin{cases} -S(T) + (S(T)-K), & \text{if } S(T) \ge K \\ -S(T), & \text{if } S(T) < K \end{cases}$$

$$= \begin{cases} -K & \text{if } S(T) \ge K \\ -S(T) & \text{if } S(T) \le K \end{cases}$$

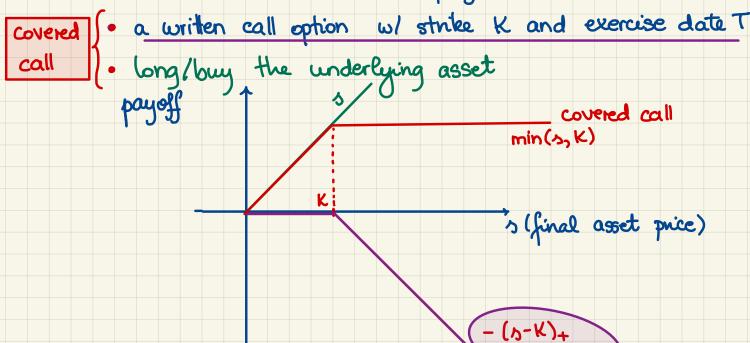
= - min(SCT), K)

Covered/Naked Option Writing.

- · covered ... if the writer of option has a simultaneous appropriate position in the underlying asset
- · naked ... if the writer of option does not have the opposite position in the underlying.

Example. A Covered Call

Assume, for simplicity, that the underlying asset pays no dividends.



written call)

