m3a22cw15.tex

# M3/4/5A22 ASSESSED COURSEWORK, Friday 20.11.2015 

Deadline 4pm, Friday 27.11.2015
Quadratic options.
In place of the standard call and put options of Black-Scholes theory, consider instead quadratic options. The quadratic call has payoff $(S-K)_{+}^{2}$, and the quadratic put payoff $(K-S)_{+}^{2}$.

Price the quadratic call. (Use the notation of lectures for the BlackScholes case $-c, d_{ \pm}$etc. Give your answer in terms of $d_{+}$rather than $d_{-}$.)

