NAME :

## Quizz 3

1. Show that the polynomial $\left(x_{1}+x_{2}\right)\left(x_{2}+x_{3}\right)\left(x_{1}+x_{3}\right)$ is symmetric and write it in terms of the elementary symmetric functions.
2. Find the splitting field of $\left(x^{2}-2 x-2\right)\left(x^{2}+1\right)$.
