

MATH 5010 - SPRING 2023 (PROF. KINSER) - QUIZ 6

1. (2 points) Let  $F$  be a field and  $K$  an extension of  $F$ . State what it means for  $K$  to be finitely generated.
2. (3 points) Let  $K$  be a field. Define the *algebraic closure* of  $K$ , denoted  $\overline{K}$ . State what it means for  $K$  to be *algebraically closed*.