## Representations of affine and vertex operator algebras Ten-minutes problem 8

Let $V$ be the 8 -dimensional irreducible representation of the group $G L_{3}$, contained as a direct summand in the adjoint representation. Compute the trace of the matrix $\operatorname{diag}\left(\varepsilon_{1}, \varepsilon_{2}, \varepsilon_{3}\right)$ in $V$.

