

Math 118 Homework 1

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1. Suppose that $A \in \mathbb{R}^{m \times n}$, $v \in \mathbb{R}^n$ and $B \in \mathbb{R}^{n \times r}$. Determine the number of floating point operations (i.e. additions and multiplications) required to compute Av and AB .
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.