# Mathematical Physics II 

## PHYS 502

Problem Set \# 1
Distributed January 4, 2016
Due January 8, 2016

1. Here is a $3 \times 2$ matrix:

$$
\left[\begin{array}{ll}
1 & 2 \\
3 & 4 \\
5 & 6
\end{array}\right]
$$

Diagonalize it.

