## Vectors and Matrices

1. Complete the following vector operations.
a) $(1,2)^{T}$.
b) $\binom{a}{b}+\binom{3}{4}$.
c) $c\binom{5}{6}$.
2. Compute the following matrix products:
a) $(a, b)\binom{1}{2}$.
b) $\binom{a}{b}(1,2)$.
c) $\left(\begin{array}{ll}a & b \\ c & d\end{array}\right)\binom{1}{2}$.
d) $(1,2)\left(\begin{array}{ll}a & b \\ c & d\end{array}\right)$.
e) $\left(\begin{array}{ll}a & b \\ c & d\end{array}\right)\left(\begin{array}{ll}1 & 2 \\ 3 & 4\end{array}\right)$.

Try to solve these problems and then look at the solutions.

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### 18.03SC Differential Equations[]

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