CPSC 314, Worksheet 1 Name $\qquad$ Student number: $\qquad$
due: Mon Sept 10, in class

1. Math review

$$
a=\left[\begin{array}{c}
1 \\
-3 \\
2
\end{array}\right], b=\left[\begin{array}{c}
2 \\
-1 \\
4
\end{array}\right], C=\left[\begin{array}{ccc}
-1 & 1 & 0 \\
1 & 0 & 3 \\
1 & 2 & 2
\end{array}\right], d=2
$$

For each of the following, compute the answer or, if it cannot be evaluated, state that it is a "nonsense" expression.
$b^{T} a$
ba
$a b^{T}$
$a^{T} b$
ad
$d C$
bC
$C a$
$b^{T} C a$
$a^{2}$
$C C^{T}$
$a \cdot b$

