Answer the questions in the spaces provided. If you run out of room for an answer, continue on the back of the page.

Name and section: $\qquad$

Instructor's name: $\qquad$

1. Compute the prime factorization of 59 .
2. Find the derivative of

$$
f(x)=\frac{1}{3} x^{3}+3 x^{2}-\frac{1}{4} x .
$$

3. What is the determinant of

$$
A=\left(\begin{array}{rrr}
-1 & 29 & 0 \\
-1 & 0 & 0 \\
-42 & 3 & -3
\end{array}\right) ?
$$

