This is a fake quiz, this is only a fake quiz. In the event of an actual quiz, you'd have been given fair warning. Repeat: This is only a fake quiz.

1. Let $f(x)=x^{3}-9 x+6$.
(a) Find the largest intervals on which $f$ is increasing.
(b) Find the largest intervals on which $f$ is decreasing.
(c) Find the largest intervals on which $f$ is concave up.
(d) Find the largest intervals on which $f$ is concave down.
(e) Find the coordinates of all local maximum points of $f$.
(f) Find the coordinates of all local minimum points of $f$.
2. Let $f(x)=\sqrt{x^{2}+3 x}-x$.
(a) Find the largest intervals on which $f$ is increasing.
(b) Find the largest intervals on which $f$ is decreasing.
(c) Find the largest intervals on which $f$ is concave up.
(d) Find the largest intervals on which $f$ is concave down.
(e) Find the coordinates of all local maximum points of $f$.
(f) Find the coordinates of all local minimum points of $f$.
