Find the following for $f$ (if they exist; if they don't exist, state so). Use this information to graph $f$.

Is $f$ even, odd, periodic? What is the domain and range of $f$?

[1.5] 1a.) critical numbers: _____

[1.5] 1b.) local maximum(s) occur at $x =$ _____

[1.5] 1c.) local minimum(s) occur at $x =$ _____

[1.5] 1d.) The global maximum of $f$ on the interval [0, 5] is _____ and occurs at $x =$ _____

[1.5] 1e.) The global minimum of $f$ on the interval [0, 5] is _____ and occurs at $x =$ _____

[1.5] 1f.) Infection point(s) occur at $x =$ _____

[1.5] 1g.) $f$ increasing on the intervals _____

[1.5] 1h.) $f$ decreasing on the intervals _____

[1.5] 1i.) $f$ is concave up on the intervals _____

[1.5] 1j.) $f$ is concave up on the intervals_____

[1.5] 1k.) Equation(s) of vertical asymptote(s)_____

[4] 1l.) Equation(s) of horizontal and/or slant asymptote(s)_____

[4.5] 1m.) Graph $f$