

Formative Assessment #24 – Intervals of Concavity and Inflection Points

C5.7: I can determine the intervals of concavity of a function.

C5.8: I can determine the points of inflection of a function.

1. For each of the following functions determine the intervals of concavity and inflection points. Include neatly labelled number lines and tables of test values.

a) $f(x) = x^4 - x^3 - 3x^2 + 4$

b) $h(x) = 3x^2 - \frac{1}{x^2}$