

Calculus Graphing Review – Rational Functions and Derivatives...

For each question:

- Check original function for vertical and horizontal asymptotes.
- Find all possible turning points; include all points of non-differentiability (POND).
- Find all possible points of inflection; include all points of non-differentiability (POND).
- Sketch the graph, make sure to exaggerate concavity and include all necessary labels!

Question 1

$$y = (x - 4)^{2/3}$$

Question 2

$$f(x) = 3x^{1/3} - 2x$$

Question 3

$$f(x) = 7x - 3x^{2/3}$$

Question 4

$$y = \frac{3x}{x + 4}$$

Question 5

$$f(x) = \frac{5x^2}{x^2 - 9}$$