

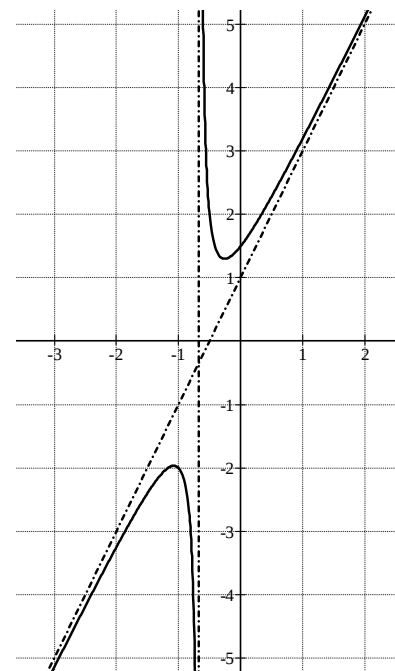
Unit 3: Applications of Differentiation
3.6 Curve Sketching II (Slant Asymptotes)

Rational functions that have a numerator exactly one degree larger than the denominator will have a slant asymptote.

To identify the slant asymptote perform the division, the quotient is the equation of the asymptote.

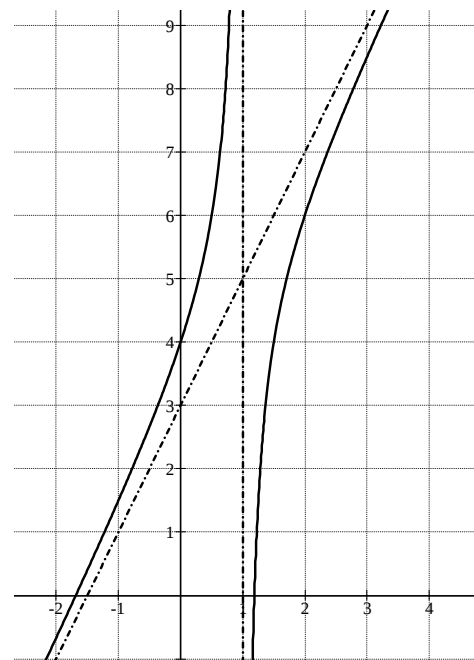
ex. $f(x) = \frac{6x^2 + 7x + 3}{3x + 2}$

*divide using long division



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

*divide using synthetic division



Practice Questions

Pg. 203/ # 35, 37, 39, 40



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