

PRE-CLASS ACTIVITY

Math 1110 - Instructor: Itamar Oliveira

NAME: _____
due next class

1. Review the examples in the textbook on horizontal asymptotes and limits at infinity.
2. Compute the horizontal asymptotes of the following functions:

(a) $f(x) = \frac{\sqrt[3]{x} - 4x + 7}{3x + x^{\frac{2}{3}} - 1}.$

(b) $g(x) = \sin(\pi x).$

3. Read about oblique asymptotes and infinite limits in section 2.6 and check the given examples.