

Quiz 5

Math 3C: Precalculus
November 7, 2019

When you finish, please remain seated until class is dismissed

Name: _____

PID: _____

Problem 1 (8 points). Let

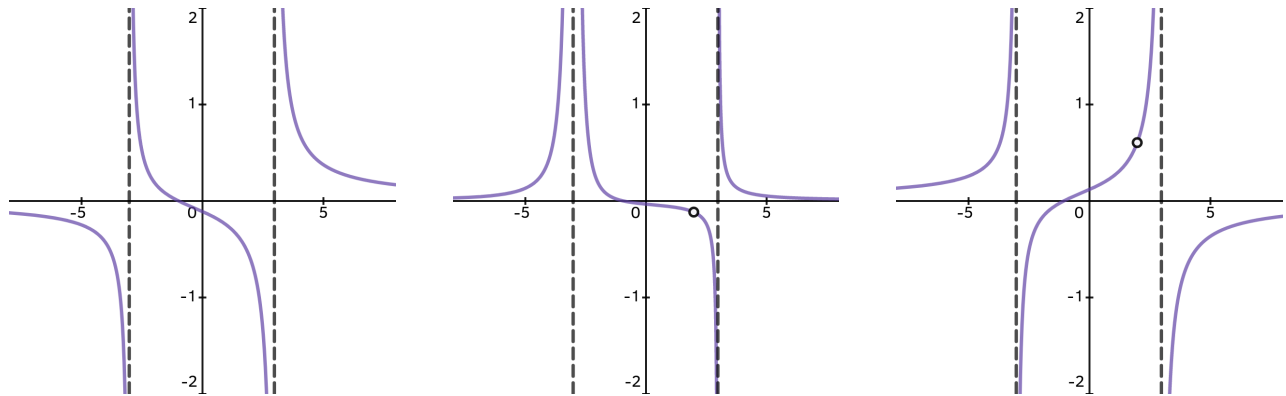
$$h(a) = \frac{-(a-2)(a+1)}{(a-3)(a+3)(a-2)}$$

(a) What are the horizontal asymptotes of $h(a)$?

(b) What are the vertical asymptotes of $h(a)$?

(c) Does $h(a)$ have any holes? If so, where?

(d) Which of the following graphs could potentially be the graph of $h(a)$? *circle one*



Problem 2 (2 points). Suppose you have an investment account with \$1000 in it that generates interest. If the interest rate is 5% compounded annually, what is the amount of money in the account after 1 year?