

# 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

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

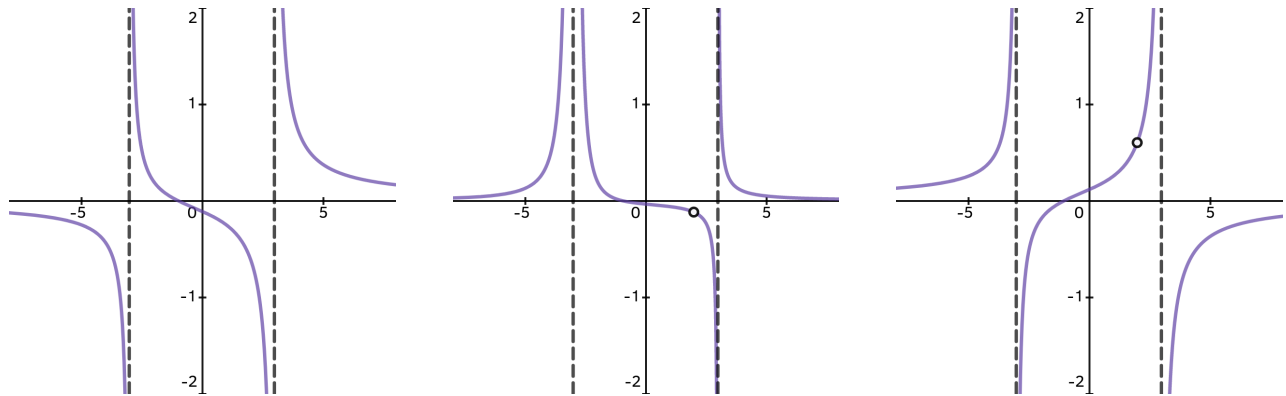
(a) What are the vertical asymptotes of  $h(a)$ ?

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

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

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(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 \$3000 in it that generates interest. If the interest rate is 10% compounded annually, what is the amount of money in the account after 1 year?