## **EXPLORING RATIONAL FUNCTIONS**

Go to <u>geogebra.org/m/d9ywzkrc</u> to complete the GeoGebra activity. Adjust the sliders in GeoGebra using the values from the left column of the table below. Record your observations.

## **Exploring Vertical Asymptotes**

m & n = 1	Observations
$b_0 < 0$	
$b_0 > 0$	

m & n = 2	Observations
$b_0 < 0$	
$b_0 > 0$	

## **Exploring Horizontal and Slant Asymptotes**

n=1	Observations
m=0  or  1	
m=2	

n=2	Observations
m=0  or  2	
m=1  or  3	

Let n=1 and m=3. Zoom out and drag the graph to see above y=100. What do you see?