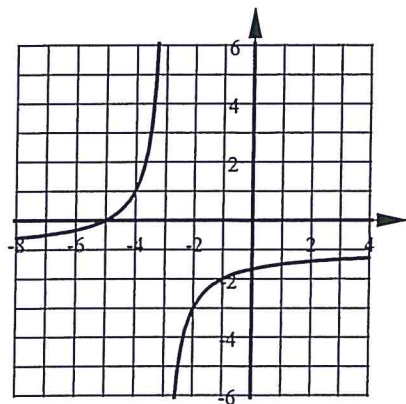


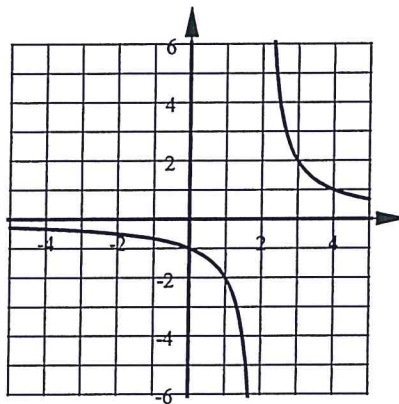
Algebra 2 Bellwork Thursday, February 4, 2016

1. Write the equation of each graph which is a transformation of $y = \frac{2}{x}$

a) EQ:



b) EQ:



2. Graph this transformation of the parent reciprocal function. Show the asymptotes as dashed lines and state the equations of the asymptotes.

a) $y = \frac{0.2}{x-3} + 4$

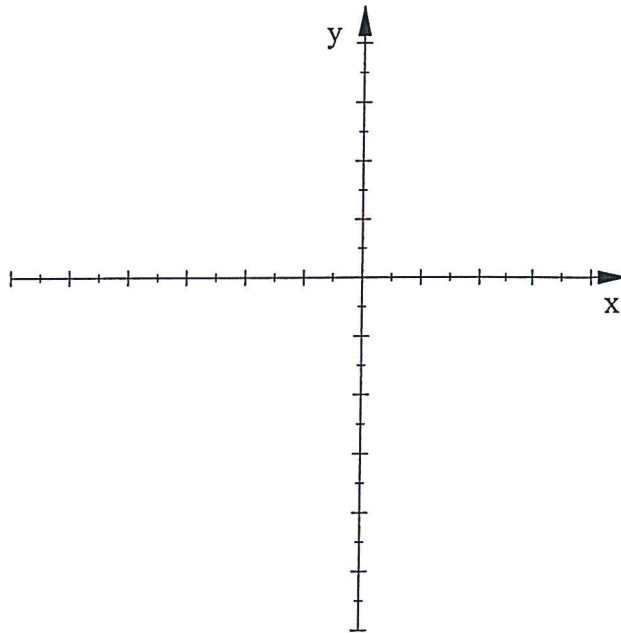
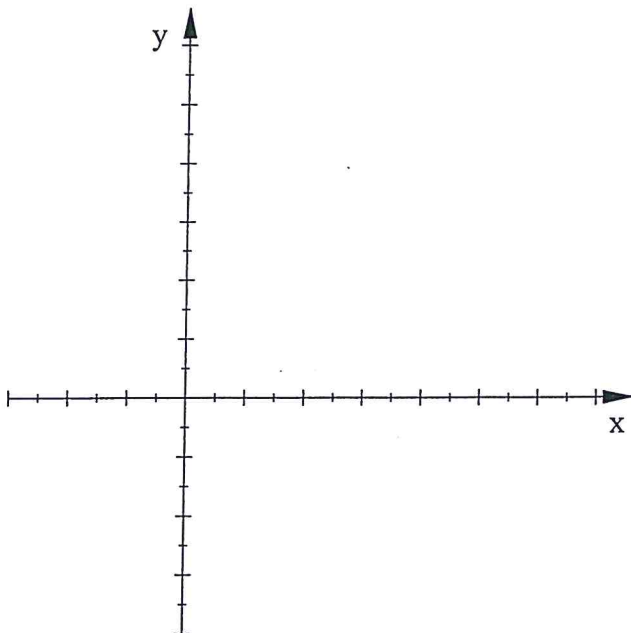
HA:

VA:

b) $y = \frac{-15}{x+2} - 3$

HA:

VA:

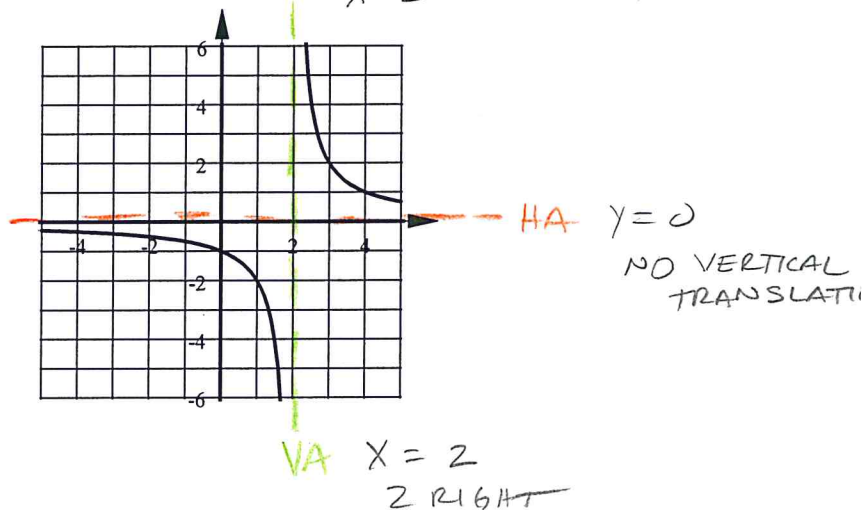
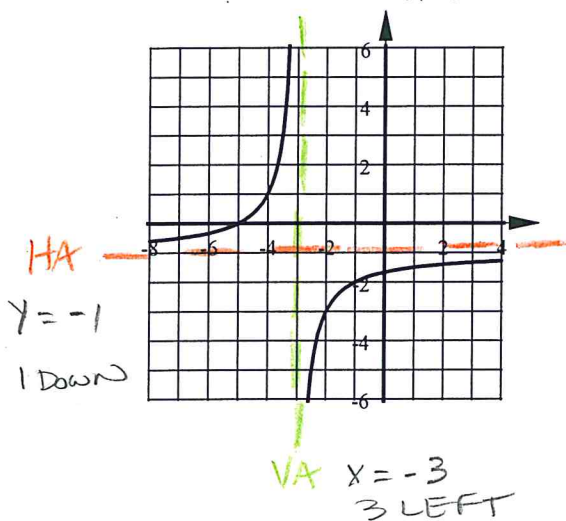


ANSWERS

1. Write the equation of each graph which is a transformation of $y = \frac{2}{x}$

a) EQ: $y = \frac{-2}{x+3} - 1$

b) EQ: $y = \frac{2}{x-2}$



2. Graph this transformation of the parent reciprocal function. Show the asymptotes as dashed lines and state the equations of the asymptotes.

a) $y = \frac{0.2}{x-3} + 4$ → QUADRANTS I & III
HA: $x = 3$ VA: $y = 4$
3 RIGHT 4 up
close to asymptotes

b) $y = \frac{-15}{x+2} - 3$ → QUADRANTS II & IV
HA: $x = -2$ VA: $y = -3$
2 left 3 down
far from asymptotes

