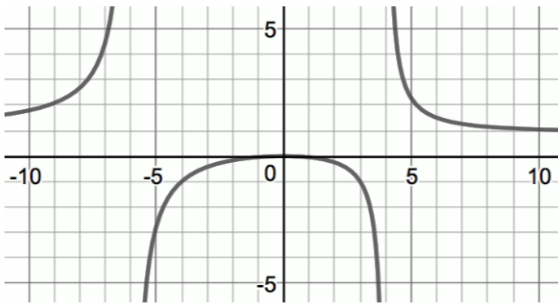


Assignment 4.4

Draw in the asymptotes and mark the intercepts for each function, then fill in the information below the graph.

1. $y = \frac{x^2}{(x+6)(x-4)}$



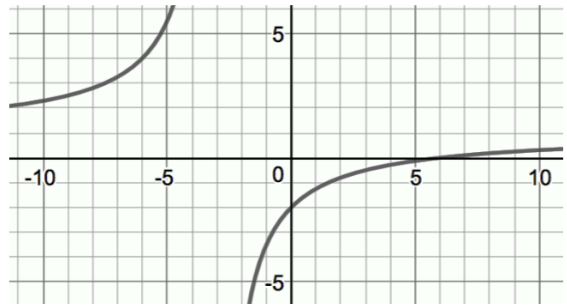
Deg of num: _____ Deg of den: _____

VA: _____ HA: _____

D: _____ R: _____

y-int: _____ x-ints: _____

2. $y = \frac{x-6}{x+3}$



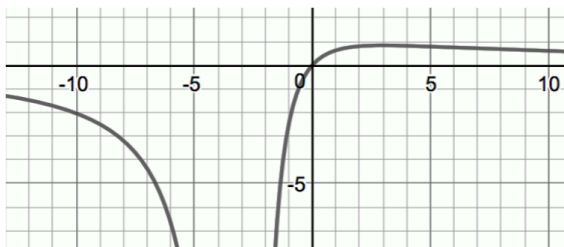
Deg of num: _____ Deg of den: _____

VA: _____ HA: _____

D: _____ R: _____

y-int: _____ x-ints: _____

3. $y = \frac{10x}{(x+3)^2}$



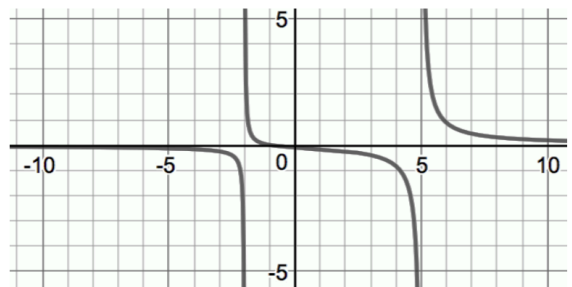
Deg of num: _____ Deg of den: _____

VA: _____ HA: _____

D: _____ R: _____

y-int: _____ x-ints: _____

4. $y = \frac{x+1}{(x+2)(x-5)}$



Deg of num: _____ Deg of den: _____

VA: _____ HA: _____

D: _____ R: _____

y-int: _____ x-ints: _____

Refresh Your Memory

Factor each polynomial

5. $4x^2 - 9$

6. $6x^2 - 11x - 10$

7. $x^3 + 216$

8. $x^3 + 3x^2 - 4x - 12$

Reduce each fraction, explain what you did to reduce it or explain why it cannot be reduced.

9. $\frac{12}{15}$

Explanation:

10. $\frac{26}{11}$

Explanation:

11. $\frac{114}{27}$

Explanation:

12. $\frac{-14,529}{14,529}$

Explanation: