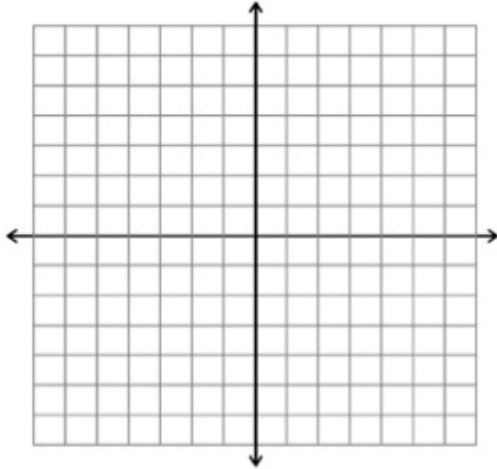
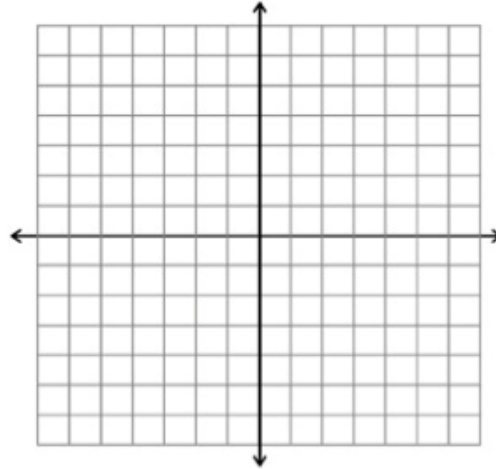


Graph the Following functions:

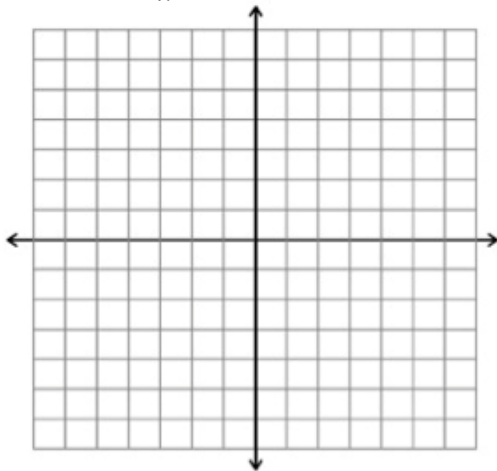
1. $f(x) = \frac{1}{x+2}$



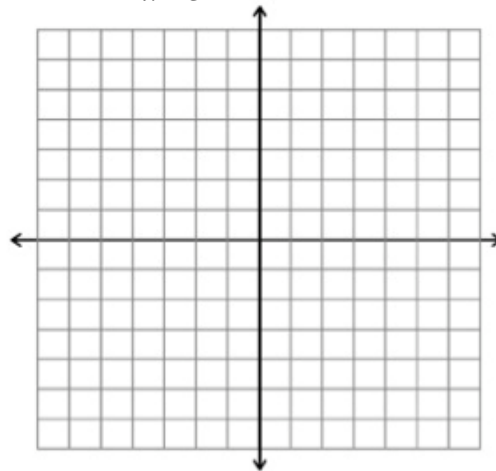
2. $g(x) = \frac{1}{x^2} + 2$



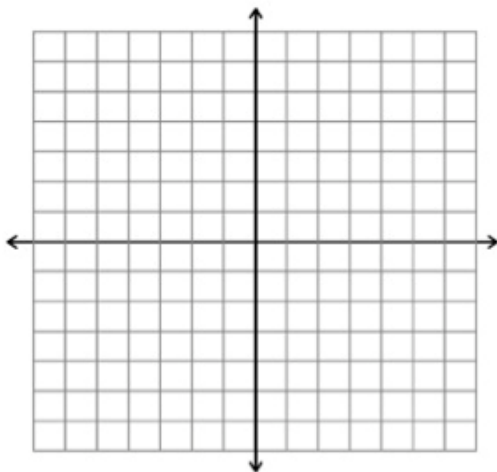
3. $h(x) = -\frac{1}{x}$



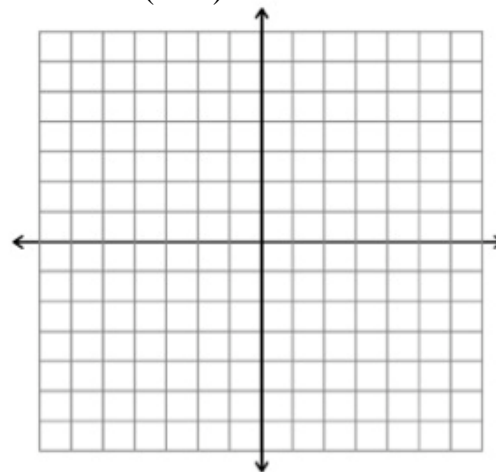
4. $p(x) = \frac{1}{x-3} + 2$



5. $k(x) = -\frac{1}{x^2}$



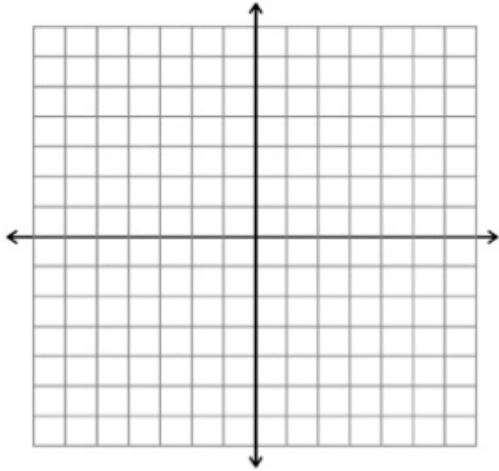
6. $f(x) = \frac{1}{(x+1)^2} - 3$



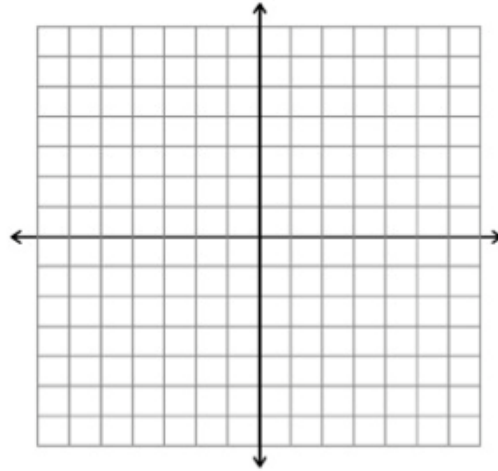
Secondary III
7-1 HW Simple Rational Functions

Name: _____
Period: _____

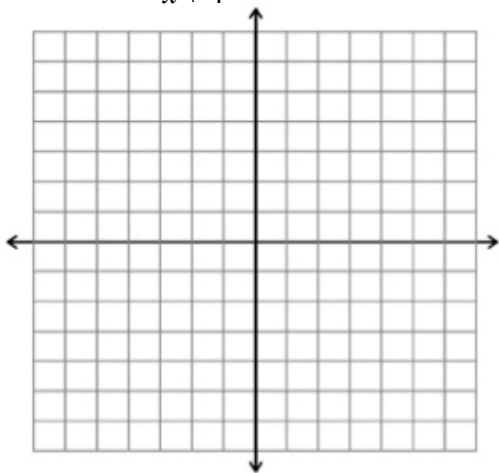
7. $f(x) = -\frac{1}{x^2} - 2$



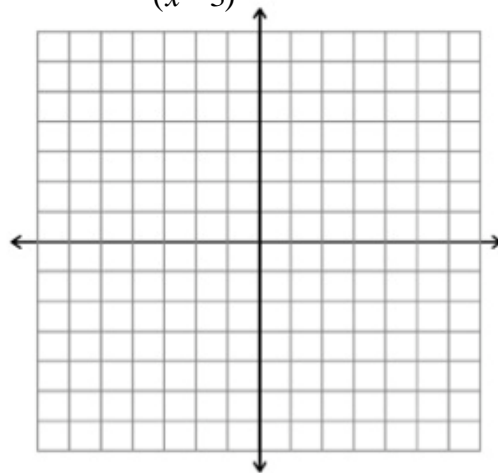
8. $p(x) = \frac{1}{x-3} + 4$



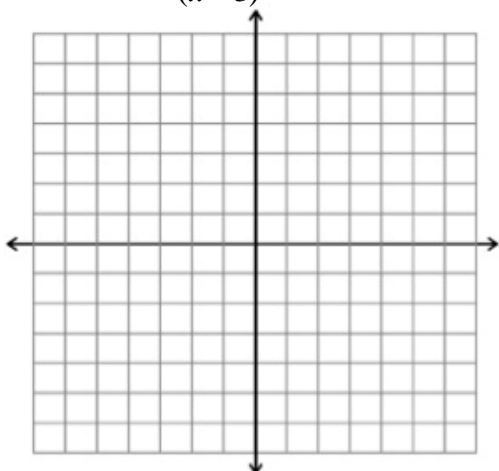
9. $f(x) = -\frac{1}{x+4}$



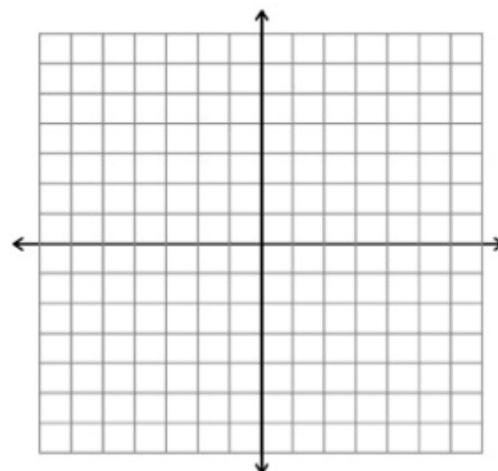
10. $g(x) = \frac{1}{(x-3)^2} - 5$



11. $k(x) = -\frac{1}{(x+3)^2} + 6$



12. $f(x) = -\frac{1}{x+2} - 3$



Give the function and analyze the following graphs:

13. $f(x)=$

Domain:

Range:

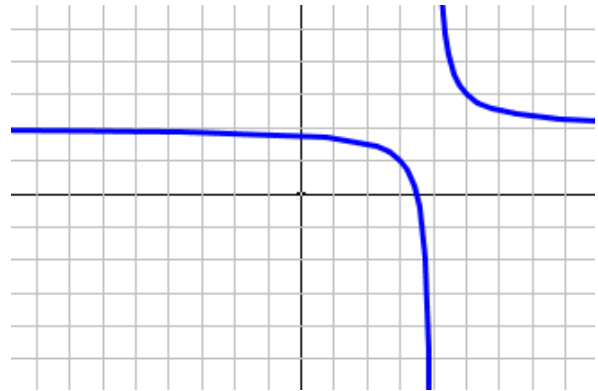
V Asymptote:

H Asymptote:

increasing:

decreasing:

End Behavior:



Asymptote behavior:

14. $g(x)=$

Domain:

Range:

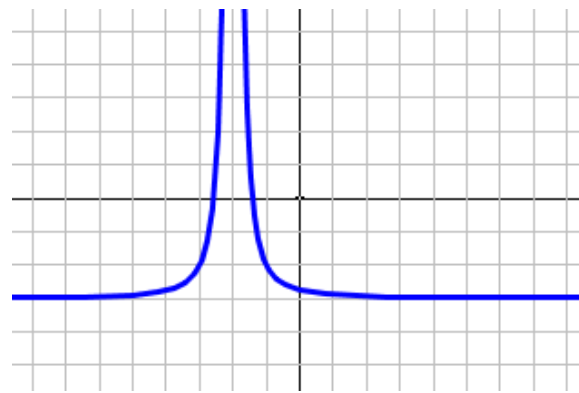
V Asymptote:

H Asymptote:

increasing:

decreasing:

End Behavior:



Asymptote behavior:

15. $h(x)=$

Domain:

Range:

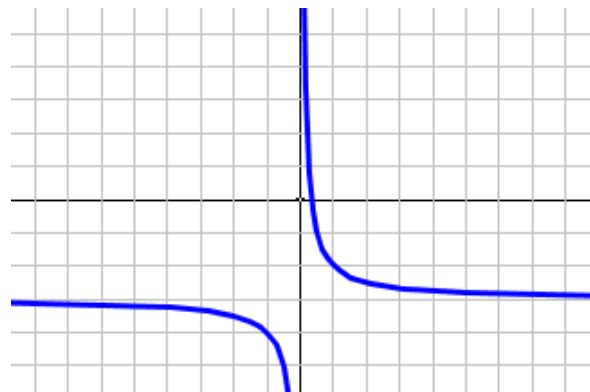
V Asymptote:

H Asymptote:

increasing:

decreasing:

End Behavior:



Asymptote behavior: