## Find the horizontal asymptote of the graph of each rational function.

19. $y=\frac{5}{x+6}$
20. $y=\frac{x+2}{2 x^{2}-4}$
21. $y=\frac{x+1}{x+5}$

Horizontal Asymptote:
Horizontal Asymptote:
Horizontal Asymptote:
22. $y=\frac{x^{2}+2}{2 x^{2}-1}$
23. $y=\frac{5 x^{3}+2 x}{2 x^{5}-4 x^{3}}$
24. $y=\frac{3 x-4}{4 x+1}$

Horizontal Asymptote:
Horizontal Asymptote:
Horizontal Asymptote:

## Describe the vertical asymptotes and holes for the graph of each rational function.

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

Vertical Asymptote(s):

Hole(s):
13. $y=\frac{(x+3)(x-2)}{(x-2)(x+1)}$

Vertical Asymptote(s):

Hole(s):
11. $y=\frac{x+5}{x+5}$
12. $y=\frac{x+3}{(2 x+3)(x-1)}$

Vertical Asymptote(s):

Hole(s):
15. $y=\frac{x+5}{x^{2}+9}$

Vertical Asymptote(s):

Hole(s):

