

For each rational function find the Horizontal Asymptote, if any, and all x and y intercepts, if any.

1. $y = \frac{x+5}{x^3 - x^2 - 6x}$

HA:

x-int:

y-int:

2. $y = \frac{x^2 + 11x + 24}{x^2 - 4}$

HA:

x-int:

y-int:

3. $y = \frac{4x^2 + 8}{x^2 - 2x - 48}$

HA:

x-int:

y-int:

4. $y = \frac{4x^3 + 2x^2 - 30x}{x^2 + 9}$

HA:

x-int:

y-int: