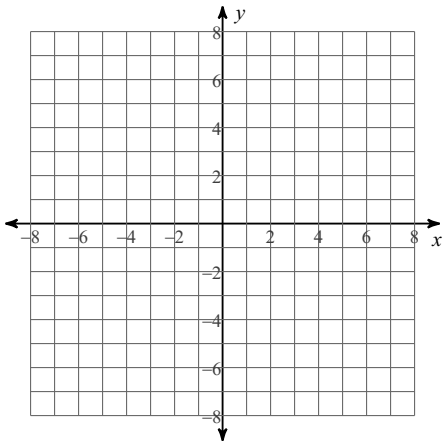
Extra Test Review 3

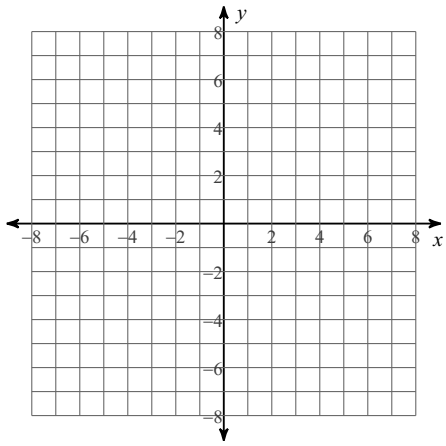
Date_____ Period____

Graph each function.

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

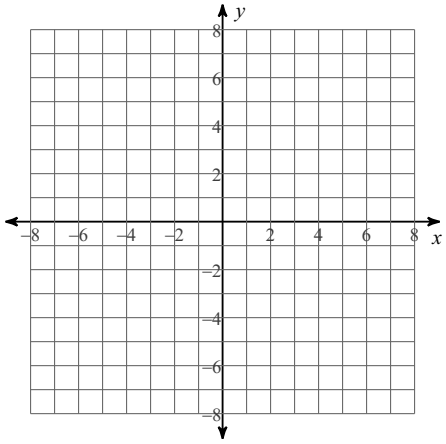


2) $f(x) = -\frac{1}{x-4} + 3$

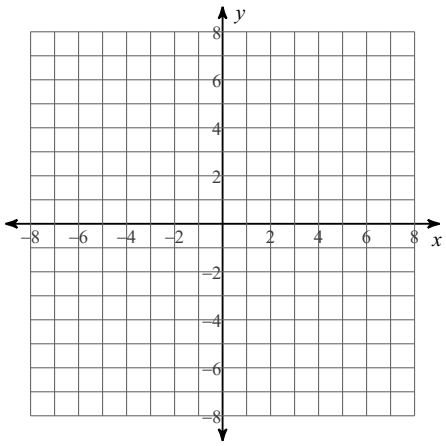


Identify the holes, vertical asymptotes, x-intercepts, horizontal asymptote, and domain of each. Then sketch the graph.

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



4) $f(x) = \dfrac{x^3 + 3x^2 - 4x}{-2x^2 - 6x}$



Write the equation of the rational function, provided the following informatain.

5) VA: x =5 and x = 4
Holes: x =-2
HA: y = 25
x-intercepts: x=2/5 and x = -2/5

Honors Algebra 2 Name_____ ID: 1

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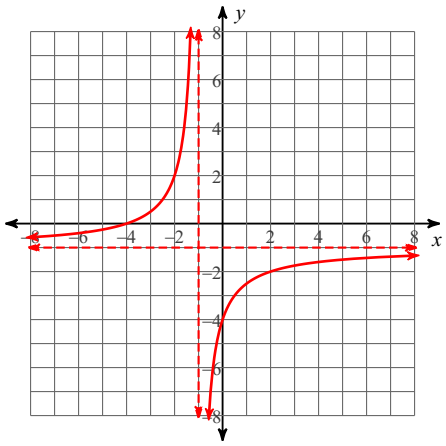

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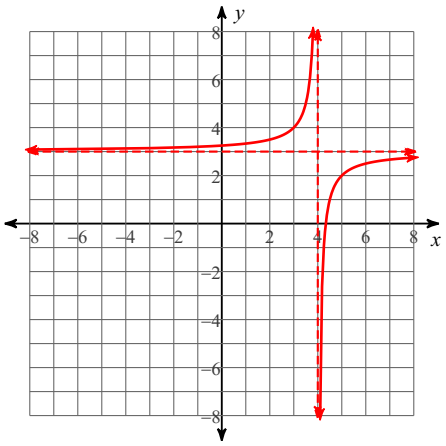

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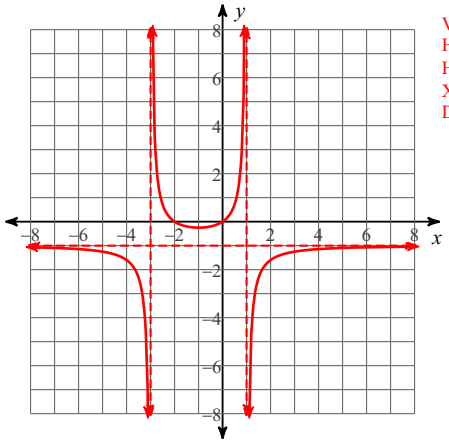

Vertical Asym.: $x = 1$, $x = -3$
Holes: None
Horz. Asym.: $y = -1$
X-intercepts: 0, −2
Domain:
All reals except 1, −3

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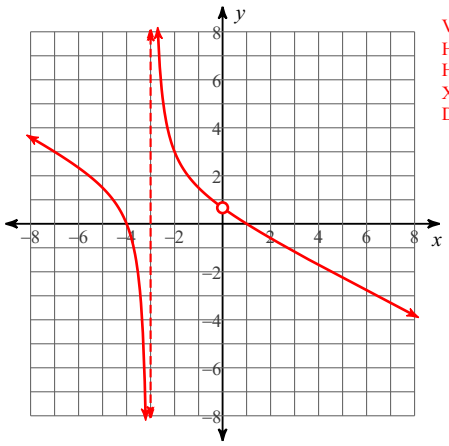

Vertical Asym.: $x = -3$
Holes: $x = 0$
Horz. Asym.: None
X-intercepts: 1, −4
Domain:
All reals except −3, 0

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5) VA: x =5 and x = 4
Holes: x =-2
HA: y = 25
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