

Name _____

Date _____

Writing rational functions given characteristics:

1. V.A. - $x = \underline{\hspace{2cm}}$ and $x = \underline{\hspace{2cm}}$

2. V.A. - $x = \underline{\hspace{2cm}}$ and $x = \underline{\hspace{2cm}}$

H.A. - $y = \underline{\hspace{2cm}}$

3. H.A. - $y = \underline{\hspace{2cm}}$ and y-intercept $\underline{\hspace{2cm}}$

Holes: An open $\underline{\hspace{2cm}}$ on the graph, (x,y) . X is found from what $\underline{\hspace{2cm}}$ after factoring. Y is found by $\underline{\hspace{2cm}}$ to the $\underline{\hspace{2cm}}$ equation.

Domain: All Reals, except $\underline{\hspace{2cm}}$
& $\underline{\hspace{2cm}}$.

Range: All Reals, except $\underline{\hspace{2cm}}$
& $\underline{\hspace{2cm}}$.

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

V.A.: $\underline{\hspace{2cm}}$

y-int: $\underline{\hspace{2cm}}$

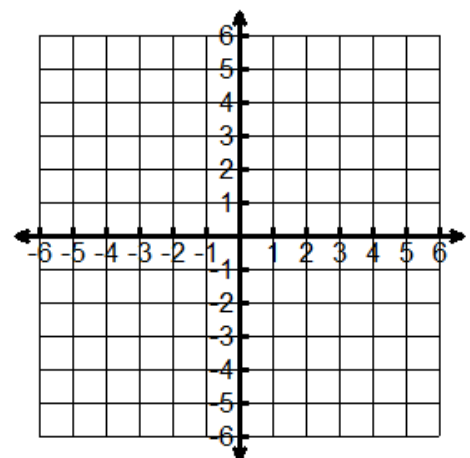
H.A.: $\underline{\hspace{2cm}}$

Hole: $\underline{\hspace{2cm}}$

x-int(s): $\underline{\hspace{2cm}}$

Domain: $\underline{\hspace{2cm}}$

Range: $\underline{\hspace{2cm}}$



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

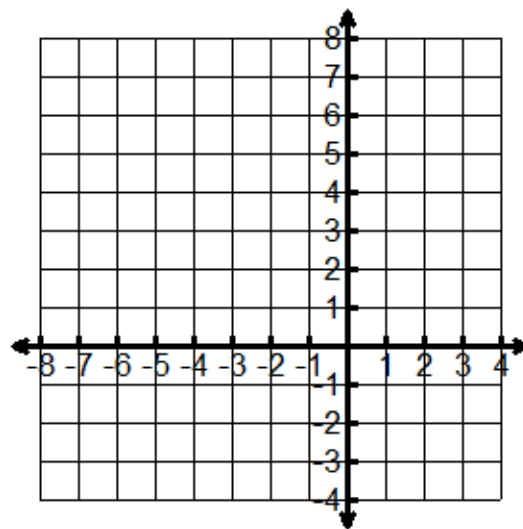
V.A.: _____ Hole: _____

H.A.: _____ Domain: _____

x-int(s):: _____

y-int: _____ Range: _____

x	y
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6. $f(x) = \frac{2x^2 - 18}{x^2 - 4}$

V.A.: _____ Hole: _____

H.A.: _____ Domain: _____

x-int(s):: _____

y-int: _____ Range: _____

x	y
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