

PreAP Precalculus
WS 2: Rational Functions
Fall 2017

Name _____

Date _____ Per _____

For the following functions, identify all asymptotes and intercepts and sketch a graph of the function.

1. $y = \frac{3-x}{x-2}$

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

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

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

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

1. VA _____

Hole _____

HA _____

OA _____

x-int _____

y-int _____

2. VA _____

Hole _____

HA _____

OA _____

x-int _____

y-int _____

3. VA _____

Hole _____

HA _____

OA _____

x-int _____

y-int _____

4. VA _____

Hole _____

HA _____

OA _____

x-int _____

y-int _____

5. VA _____

Hole _____

HA _____

OA _____

x-int _____

y-int _____