

Graphing Rational Functions Worksheet

Find the VA and HA of the following:

1. $\frac{x^2 + 4x - 5}{x^2 + 9x + 20}$

VA _____

HA _____

2. $\frac{x^2 - 9}{x + 3}$

VA _____

HA _____

3. $\frac{x + 6}{2x^2 + 9x - 18}$

VA _____

HA _____

Graph each equation and fill in all the blanks.

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

Domain _____

VA _____

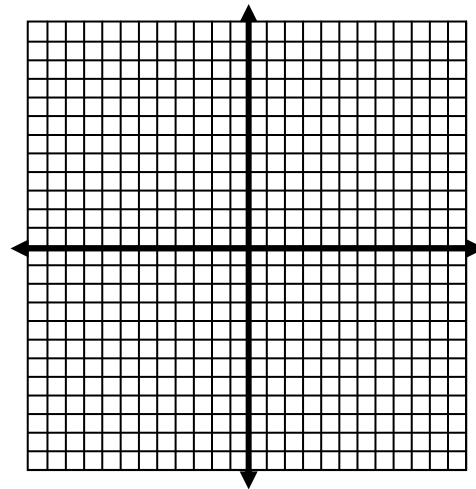
Holes _____

x-int _____

y-int _____

HA _____

Continuous/Discontinuous _____



5. $y = \frac{x^2 - 9}{x - 3}$

Domain _____

VA _____

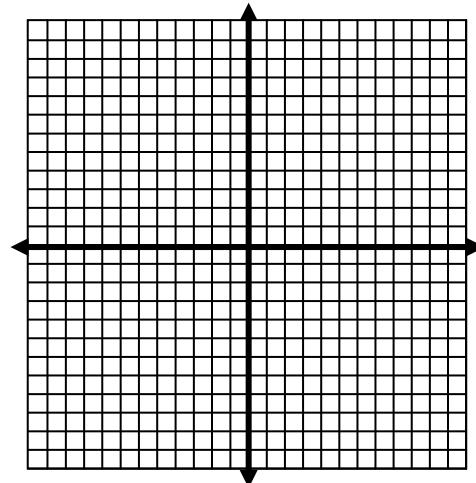
Holes _____

x-int _____

y-int _____

HA _____

Continuous/Discontinuous _____



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

Domain _____

VA _____

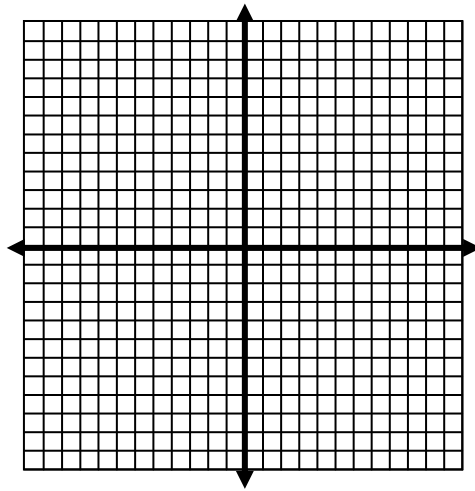
Holes _____

x-int _____

y-int _____

HA _____

Continuous/Discontinuous _____



7. $y = \frac{x + 1}{(x - 3)^2}$

Domain _____

VA _____

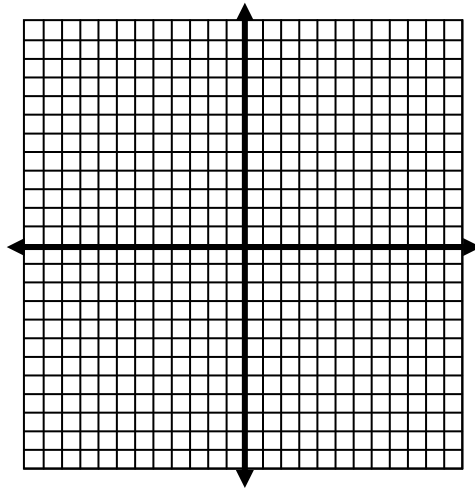
Holes _____

x-int _____

y-int _____

HA _____

Continuous/Discontinuous _____



8. $y = \frac{x - 4}{-4x - 16}$

Domain _____

VA _____

Holes _____

x-int _____

y-int _____

HA _____

Continuous/Discontinuous _____

