5.4 Graphing Rational Functions Quiz Review
Algebra 3

Name _____

Date _____ Block _____

Graph each function

1. $f(x) = \dfrac{x^2 + x - 2}{x^2 - x - 6}$
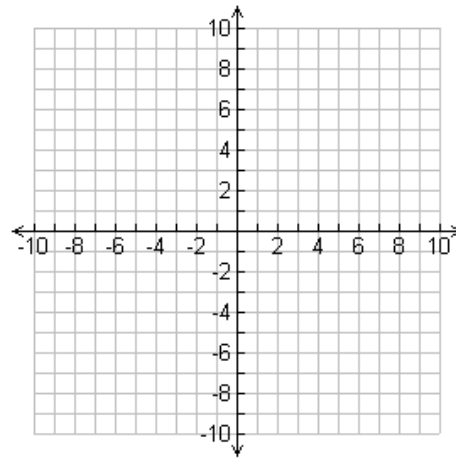
x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

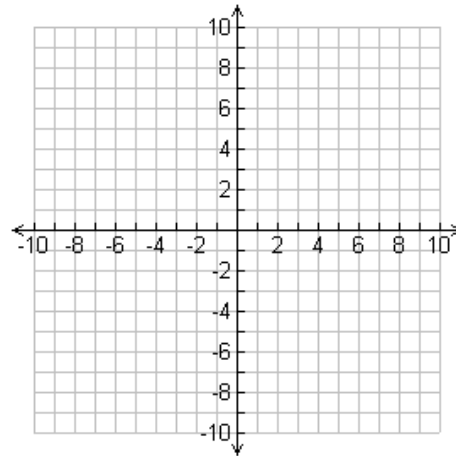2. $f(x) = \dfrac{2x^2}{x^2 - 1}$

x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

3. $f(x) = \dfrac{3}{x - 2}$
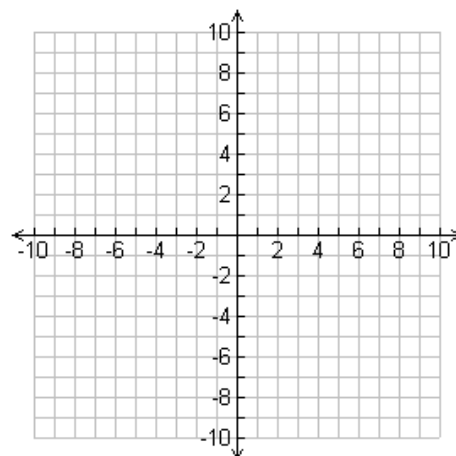
x-int _____

y-int _____

VA _____

Holes _____

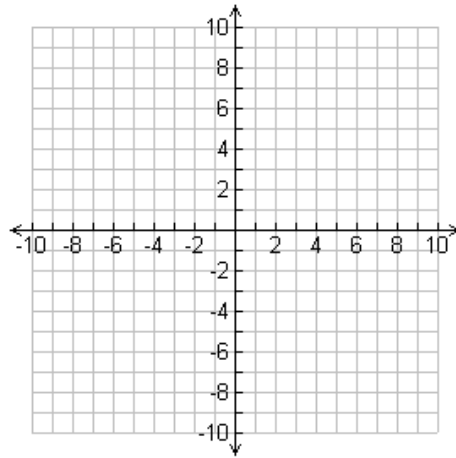HA _____

SA _____

4. $f(x) = \dfrac{2x-1}{x}$

x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

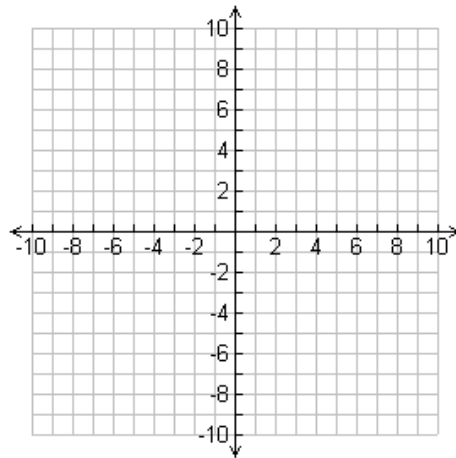5. $f(x) = \dfrac{x^2 + x - 12}{x^2 - 9}$

x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

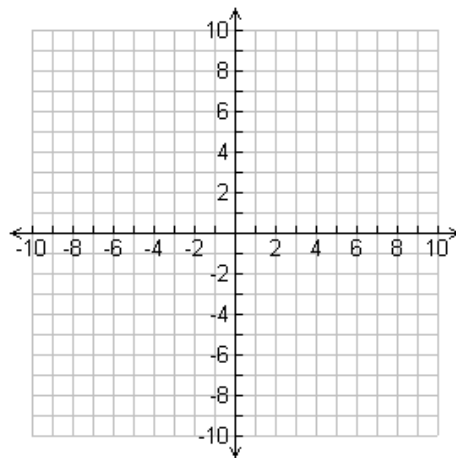6. $f(x) = \dfrac{x^2 - 4}{x + 3}$

x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

7. $f(x) = \dfrac{x^2 - x}{x+1}$
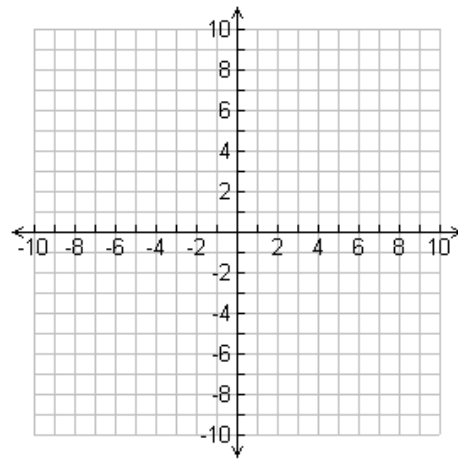
x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

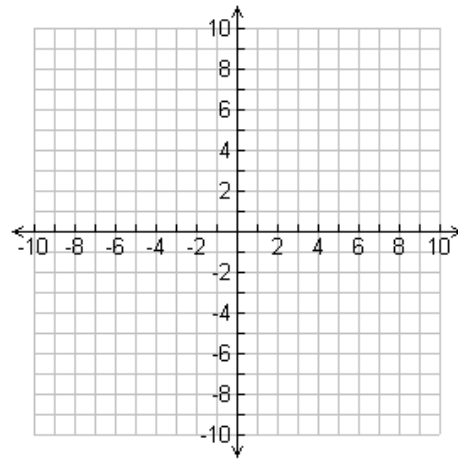8. $f(x) = \dfrac{x^2 - x - 2}{x - 1}$

x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

9. $f(x) = \dfrac{x+1}{x^2 + 3x + 2}$
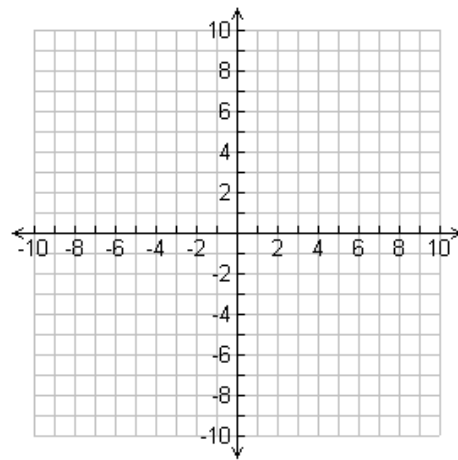
x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

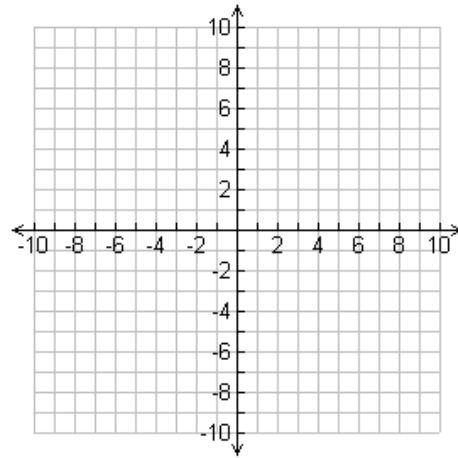10. $f(x) = \dfrac{x^2 - 9}{x^2 - 2x - 3}$

x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

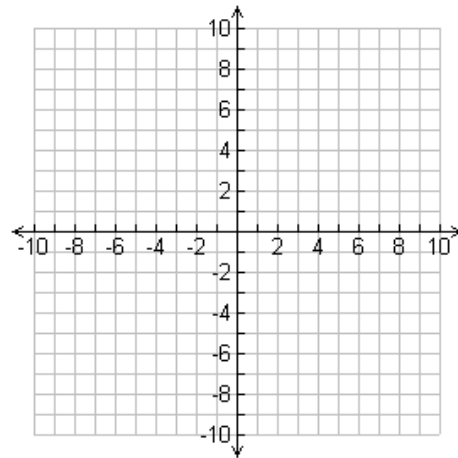11. $f(x) = \dfrac{x^3 + x^2 - 6x}{4x^2 + 4x - 8}$

x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____

12. $f(x) = \dfrac{x^2 + 3x}{x^2 - x}$

x-int _____

y-int _____

VA _____

Holes _____

HA _____

SA _____