Lesson 5.4 Practice: Graphing Rational Functions

School Launch · Algebra II · Unit 5: Rational Expressions and Functions · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. For $f(x) = \frac{x+5}{x-1}$ find the x-intercept and y-intercept.

EASY

2. For $f(x) = \frac{x+2}{x+4}$ find the x-intercept and y-intercept.

EASY

3. For $f(x) = \frac{x+1}{x-4}$ find the x-intercept and y-intercept.

EASY

4. For $f(x) = \frac{x-2}{x-1}$ find the x-intercept and y-intercept.

MEDIUM

5. For $f(x) = \frac{x-3}{x+5}$ find the x-intercept and y-intercept.

MEDIUM

6. For $f(x) = \frac{x-2}{x+3}$ find the x-intercept and y-intercept.

MEDIUM

7. For $f(x) = \frac{x+4}{x+1}$ find the x-intercept and y-intercept.

MEDIUM

8. For $f(x) = \frac{x^2-6x+8}{x^2-16}$ find the x-intercept and y-intercept and the location of the hole. HARD

9. For $f(x) = \frac{x^2-4x-5}{x^2-1}$ find the x-intercept and y-intercept and the location of the hole. HARD

10. For $f(x) = \frac{x^2-7x+10}{x^2-4}$ find the x-intercept and y-intercept and the location of the hole. HARD