

## Advanced Functions 12 Chapter 3: Rational Functions

### Across

- 3** A function is \_\_\_\_\_ at an  $x$ -value for which  $f(x)$  is undefined.
- 4** The point where a function crosses the  $x$ -axis is called the  $x$ -\_\_\_\_\_.
- 7** (with 9 Down) A point where a function is not defined or where the slope of a function changed sign.
- 10** A function of the form  $f(x)/g(x)$  is called a(n) \_\_\_\_\_ function.
- 11**  $x$  and  $1/x$  are \_\_\_\_\_ of each other.

### Down

- 1** The function  $f(x) = (6x+2)/(3x+1)$  has a(n) \_\_\_\_\_ asymptote at  $y = 2$ .
- 2** The pivot on which a lever turns.
- 3** The set of numbers for which a function is defined.
- 5** A statement such as  $2x - 3 > 0$  is called a(n) \_\_\_\_\_.
- 6** A function such as  $y = 3x^2 + 4x + 2$ .
- 8** The set of possible  $y$ -values a function can take on.
- 9** See 7 Across.

