

# Quiz

## College Algebra

Name:

Choose the correct response. No work necessary.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

True or False

1.  $-1 \in \mathbb{N}$
2.  $1000000 \in \mathbb{N}$
3.  $2^{-1} = 0.5$
4.  $1.0 \in \mathbb{Q}$
5.  $2^a = 5$  for  $a \in \mathbb{Z}$

Select the correct response.

6. Which is demonstrated in  $3 * (x \div \pi) = (x \div \pi) * 3$ ?
  - a. associative property of multiplication
  - b. commutative property of division
  - c. associative property of division
  - d. commutative property of multiplication
  - e. distribution
7. If  $a \neq 0$ , what does  $4a^4 * a^{-3}$  equal?
  - a.  $2a$
  - b.  $2a$
  - c.  $4a^{-12}$
  - d.  $4a^7$
  - e.  $4a$
8. Why does  $(x * 101) * 39$  equal  $x * (101 * 39)$ ?
  - a. commutative property of addition
  - b. associative property of multiplication
  - c. commutative property of multiplication
  - d. distribution

9. Does  $(10000.239 + 5593) * 39 = 10000.239 + 5593 * 39$ ?
- yes
  - no
10. What does  $(x + 2)(a - 1)$  equal?
- $-2 + ax - x + 2a$
  - $2x - 2a$
  - $x + 2a - 1$
  - $xa - x + 2a - 1$
11. Bonus: expand  $(a + x + y)(b + z + c)$

answer key:

1. F
2. T
3. T
4. T
5. F
6. d
7. e
8. b
9. b
10. a
11.  $ab + az + ac + xb + xz + xc + yb + yz + yc$