Name: _____ Period: _____ Date: _____

Midpoint and Distance in the Coordinate Plane Bell Work

1. Complete the following statements.

a.   A midpoint of a segment is a point that divides the segment into _____ segments.

b.   The hypotenuse of a right triangle is always across from _____.

c.   If a and b are the lengths of the legs of a right triangle, and c is the lengths of the hypotenuse, then:
$c^2 = $ _____

2. Which of the following is correct?

a.   The distance between two points is always positive.

b.   The coordinate plane contains four quadrants.

c.   The horizontal number line in coordinate plane is the y-axis.

Multiple Choices

3. The origin in coordinate plane has a coordinates:

a. $(2, 0)$

b. $(0, -2)$

c. $(5, -5)$

d. $(0, 0)$

4. The vertical number line in coordinate plane is:

a.   y-axis

b.   x-axis

c.   z-axis

d.   origin

5. The Pythagorean Theorem can be used for:

a.   obtuse triangle

b.   acute triangle

c.   right triangle

d.   any triangle