Algebra Readiness   Pythagorean and Distance   Full Name _____

05 A – Worksheet 2   Date _____ Period _____

1a. Label the following: x-axis, y-axis, origin, quadrants I, II, III, IV

b. Guyute starts at point A and walks South 5 units and then East 2 units to point B.
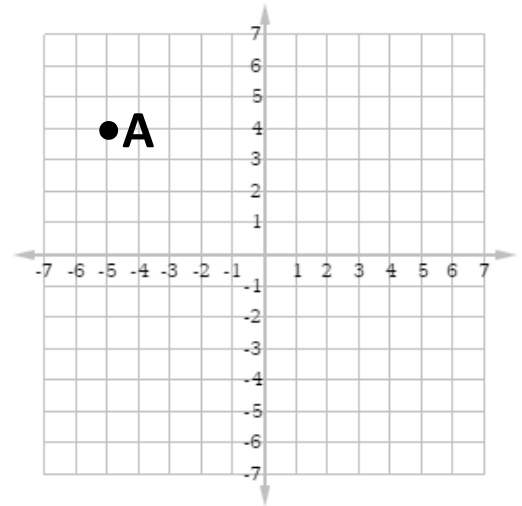
c. What is the coordinate of "A"?

d. On the coordinate plane, label   e. What is the coordinate of point B?
point "B" where Guyute finishes
his walk.

Find the _____ distance between points A and B.

f. Exact   g. Estimated (bounded)

h. Calculator evaluated

i. Plot and label any point C which is the same distance from point A as point B. Justify how you know they are the same distance from point A.

3. After drinking coffee outside a coffee shop, a possum walked East 38 ft and then North 29 ft before stopping.

a. Draw an appropriate model for this scenario.

b. Find the total distance the Possum walked from the coffee shop.

c. Find the exact and calculator evaluated distance between the coffee shop and where the possum stopped. Show your work.

4a. Verify that a "3,4,5" triangle where 5 is the hypotenuse is a right triangle.

b. Plot and label 6 coordinates (A,B,C,D,E,F) that have an exact distance of 5 from the origin.

A:

B:

C:

D:

E:

F:

Standards: 6.NS.C.5   7.NS.A.1.c   6.NS.C.6.a   7.NS.A.1.a
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