# Name _____    Hour _____

**Find the length of each segment.  Write your answer in two forms: simplest radical form and rounded to the nearest hundredth.**

1.

B(6, 6)
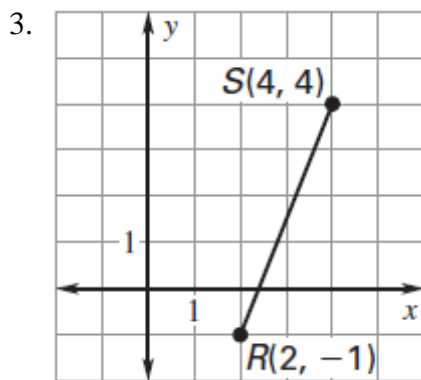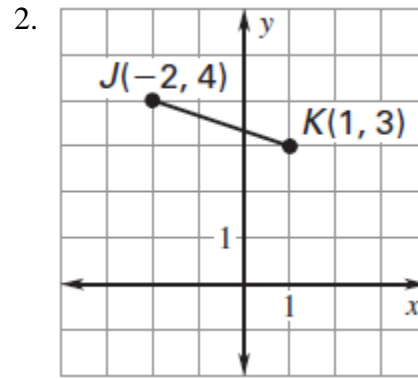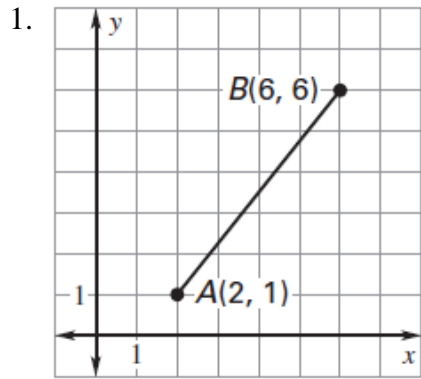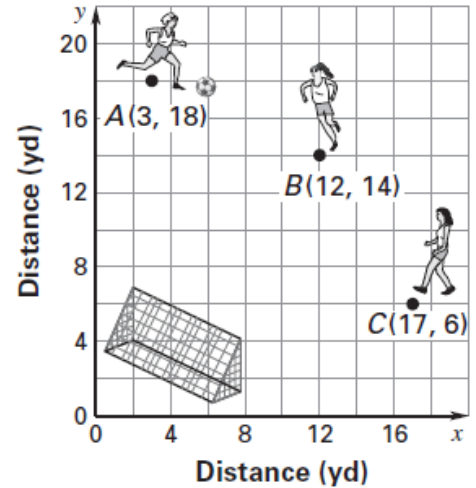A(2, 1)

2.

J(−2, 4)
K(1, 3)

3.

S(4, 4)
R(2, −1)

4.

B(7, 4)
A(1, 2)

5.

S(−2, 0)
T(5, −4)

6.

A(10, 5)
B(2, −3)
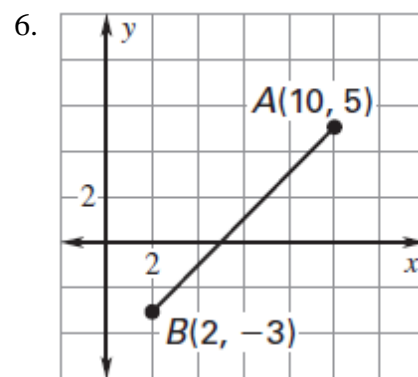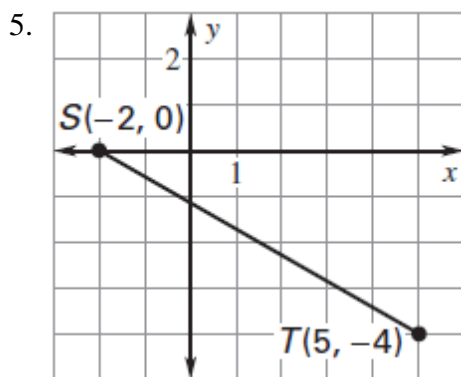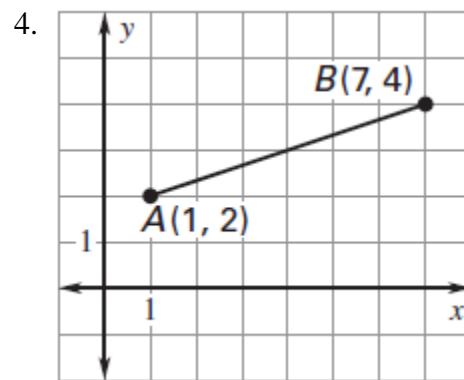
# Distance Formula

**The diagram shows the position of three soccer players.**

7. How far does player *A* have to kick the ball if she passes the ball to player *B*?



8. How far does player *B* have to kick the ball if she passes the ball to player *C*?

9. How far does player *A* have to kick the ball if she passes the ball to player *C*?

**Find the distance between each pair of towns.**

10. Dunkirk to Clearfield

11. Dunkirk to Lake City

12. Dunkirk to Allentown

13. Clearfield to Lake City



14. Clearfield to Allentown

15. Lake City to Allentown
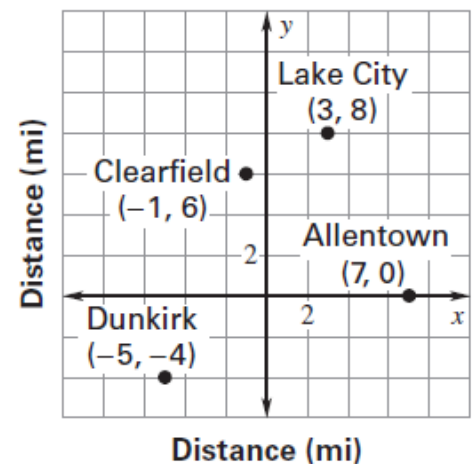
16. The map is being used to plan a 36-mile bicycle race. Which of the following plans is the best route for the race? *Explain*.
    A. Dunkirk to Clearfield to Allentown to Dunkirk
    B. Dunkirk to Clearfield to Lake City to Allentown to Dunkirk
    C. Dunkirk to Lake City to Clearfield to Dunkirk
    D. Dunkirk to Lake City to Allentown to Dunkirk