

## 1-3 Pythagorean Theorem #1

- \_\_\_\_\_ 1. If you walk 8 miles due East and 6 miles due South, how far from the starting point are you?
- \_\_\_\_\_ 2. If you walk 35 miles due North and then 48 miles due West, rounded to the nearest mile how far are you from your starting point?
- \_\_\_\_\_ 3. If the diagonal distance of a rectangle is 97 cm and one of the sides is 65 cm, what is the other side length?
- \_\_\_\_\_ 4. If  $A = (3, 8)$  and  $B = (10, 11)$ , what is  $AB$ ? (Round to the nearest tenth.)
- \_\_\_\_\_ 5. Which of triangle measurements below is a right triangle?  
A. 2, 4, 7                      B. 6, 8, 10                      C. 11, 12, 13                      D. 12, 14, 16

## 1-3 Pythagorean Theorem #2

- \_\_\_\_\_ 1. If you walk 9 miles due East and 40 miles due South, how far from the starting point are you?
- \_\_\_\_\_ 2. If you walk 10 miles due North and then 24 miles due West, how far are you from your starting point?
- \_\_\_\_\_ 3. If the diagonal distance of a rectangle is 25 cm and one of the sides is 7 cm, what is the other side length?
- \_\_\_\_\_ 4. If  $A = (1, 2)$  and  $B = (10, 11)$ , what is  $AB$ ? (Round to the nearest tenth.)
- \_\_\_\_\_ 5. Which of triangle measurements below is a right triangle?  
A. 1, 5, 7                      B. 3, 4, 6                      C. 16, 63, 65                      D. 19, 20, 35

## 1-3 Pythagorean Theorem #3

- \_\_\_\_\_ 1. If you walk 13 meters due East and 84 meters due South, how far from the starting point are you?
- \_\_\_\_\_ 2. If you drive 48 miles due North and then 20 miles due West, rounded to the nearest mile how far are you from your starting point?
- \_\_\_\_\_ 3. If the diagonal distance of a rectangle is 73 cm and one of the sides is 55 cm, what is the other side length?
- \_\_\_\_\_ 4. If  $A = (-3, 1)$  and  $B = (3, -5)$ , what is  $AB$ ? (Round to the nearest tenth.)
- \_\_\_\_\_ 5. Which of triangle measurements below is a right triangle?  
A. 2, 6, 8                      B. 6, 7, 10                      C. 5, 11, 12                      D. 5, 12, 13