

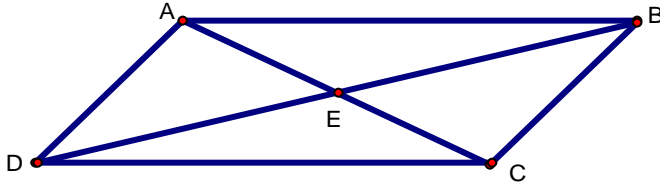
## 6-2 Parallelograms

Name: \_\_\_\_\_

Time Start: \_\_\_\_\_ Finish: \_\_\_\_\_

Total Time = \_\_\_\_\_

1. Consider the parallelogram below. Find the missing sides and angles listed below given that  $EC = 15$  cm,  $BC = 11$  cm,  $\angle DAE = 55^\circ$ ,  $\angle BCD = 110^\circ$



$AC =$  \_\_\_\_\_

$AD =$  \_\_\_\_\_

$\angle BAD =$  \_\_\_\_\_

$\angle BAC =$  \_\_\_\_\_

$\angle BCA =$  \_\_\_\_\_

$\angle ACD =$  \_\_\_\_\_

Find the fourth missing point of parallelogram ABCD given points A, B, and C.

\_\_\_\_\_ 2.  $A = (0, 0)$   $B = (6, 0)$ ,  $C = (3, 4)$

\_\_\_\_\_ 3.  $A = (0, 0)$   $B = (9, 0)$ ,  $C = (5, 7)$

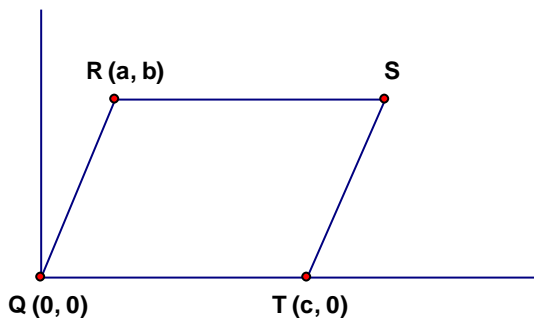
\_\_\_\_\_ 4.  $A = (2, 0)$   $B = (6, 0)$ ,  $C = (2, 9)$

\_\_\_\_\_ 5.  $A = (5, 2)$   $B = (13, 2)$ ,  $C = (8, 9)$

\_\_\_\_\_ 6.  $A = (-4, 1)$   $B = (6, 1)$ ,  $C = (1, 8)$

\_\_\_\_\_ 7.  $A = (-3, -5)$   $B = (1, -5)$ ,  $C = (-20, -15)$

- \_\_\_\_\_ 8. Which of the following is not true about a parallelogram?
- A. The diagonals bisect each other.
  - B. Any two consecutive angles are complementary.
  - C. Any two opposite sides are congruent.
  - D. Any two opposite angles are congruent.



- \_\_\_\_\_ 9. QRST above is a parallelogram. What are the coordinates of vertex S?
- A.  $(c, b)$       B.  $(a + b, c)$       C.  $(c - a, b)$       D.  $(c + a, b)$

