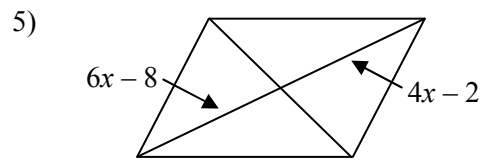
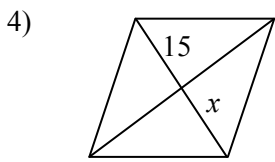
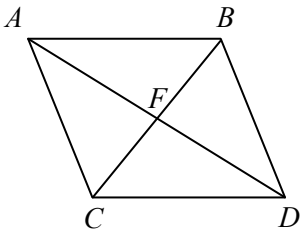


- 1) Opposite sides of a parallelogram are \_\_\_\_\_.
- 2) Opposite angles of a parallelogram are \_\_\_\_\_.
- 3) Diagonals of a parallelogram \_\_\_\_\_ each other.

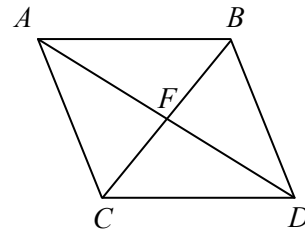
**Find the value of x in each parallelogram.**



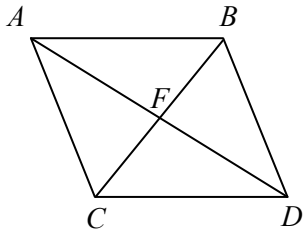
6)  $AD = 24, AF = 3x + 4$



7)  $BC = 24, CF = 2x + 1$

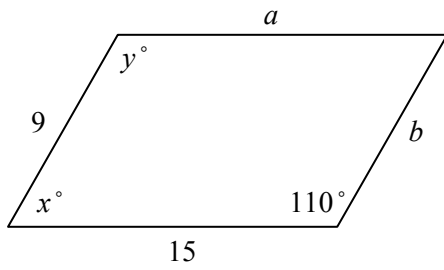


8)  $AD = 120, AF = x$

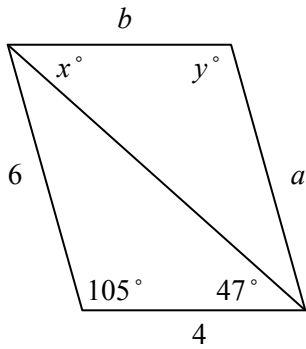


Find the value of  $a$ ,  $b$ ,  $x$ , and  $y$  in each parallelogram.

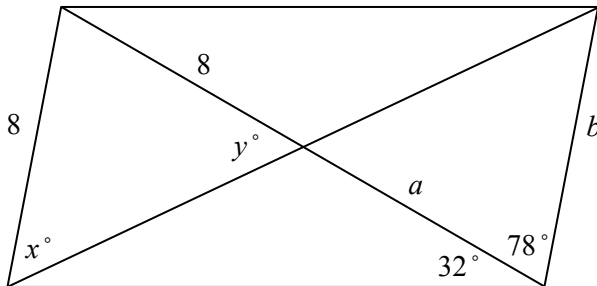
9)



10)



11)



*Answer Key*

- 1) Congruent
- 2) Congruent
- 3) Bisect
- 4) 15
- 5) 3
- 6) 4
- 7) 11
- 8) 60
- 9)  $a = 15, b = 9, x = 70, y = 110$
- 10)  $a = 6, b = 4, x = 47, y = 105$
- 11)  $a = 8, b = 8, x = 51, y = 51$