Find the missing angle.

1)

x

105°

90°   90°

2)

x   83°

119°   92°

3)

71°   x

97°   54°

4)

105°   x

75°   105°

$105 + 90 + 90 + x = 360$
$285 + x = 360$
$-285 \quad -285$
$\underline{x = 75°}$
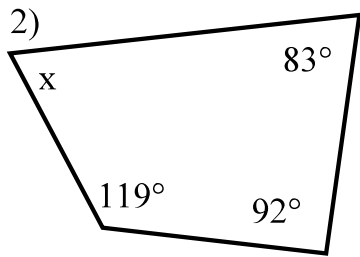
$x + 83 + 92 + 119 = 360$
$x + 294 = 360$
$\quad -294 \quad -294$
$\underline{x = 66°}$
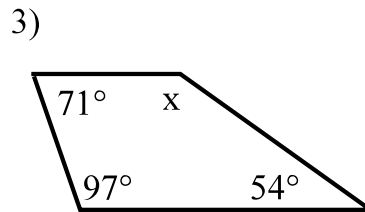
$71 + x + 54 + 97 = 360$
$x + 222 = 360$
$\quad -222 \quad -222$
$\underline{x = 138°}$
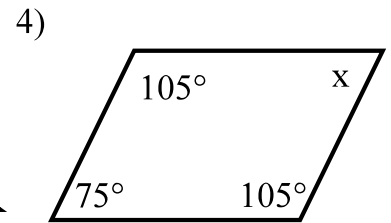
$105(2) + 75 + x = 360$
$285 + x = 360$
$-285 \quad -285$
$\underline{x = 75°}$

Identify the quadrilaterals.

5)   Kite

6)   Rectangle

7)   Trapezoid

8)   Parallelogram

9)   Rhombus

10)   Trapezoid

11)   Quadrilateral

12)   Parallelogram

13)   Square

14)   Kite

15)   Rhombus

16)   Square

17)   Rectangle

18)   Quadrilateral
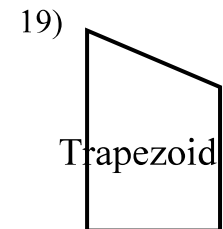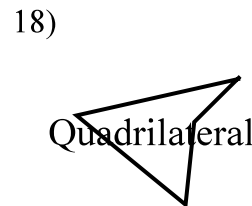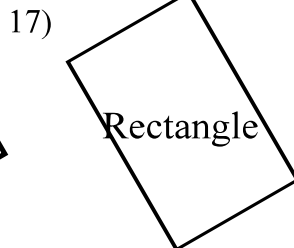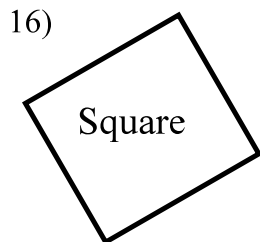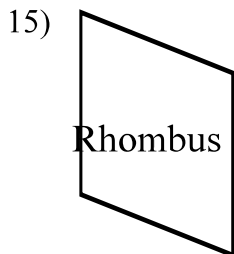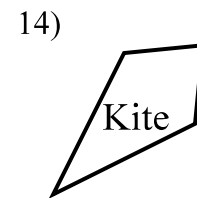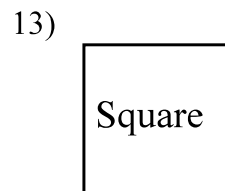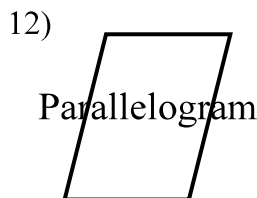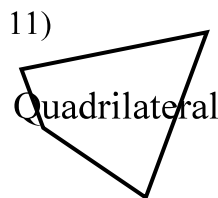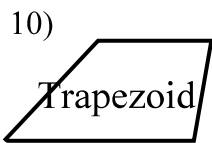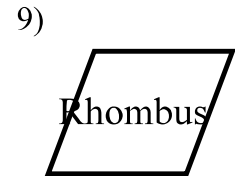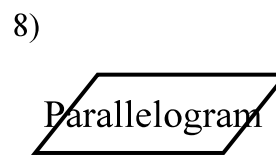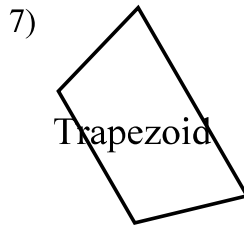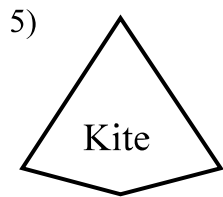
19)   Trapezoid

Use the words *always*, *sometimes*, or *never* to complete each sentence accurately.

20) A quadrilateral is __sometimes__ a parallelogram .

21) A trapezoid is __never__ a kite.

22) A parallelogram is __sometimes__ a rhombus.

23) A square is __always__ a rhombus.

24) A square is __always__ a rectangle.

25) A trapezoid is __always__ a quadrilateral.

Try to draw a quadrilateral with the following properties. Name each, if possible.
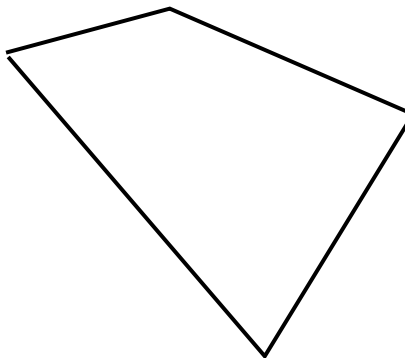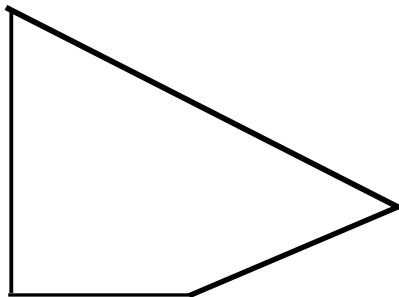
26) **Exactly one pair of parallel sides.**

27) **Exactly three congruent sides.**

Trapezoid

Quadrilateral

28) Exactly one right angle.

29) Exactly three acute angles.

Quadrilateral

Quadrilateral