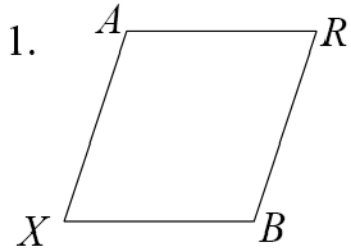
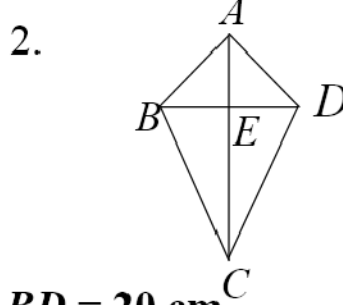


Given the following rhombus and kite, find the area of each figure.



$$RX = 10 \text{ cm}$$

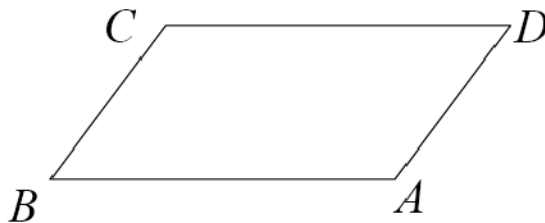
$$AB = 8 \text{ cm}$$



$$BD = 20 \text{ cm}$$

$$AC = 40 \text{ cm}$$

3. Find  $m\angle B$  in parallelogram ABCD.



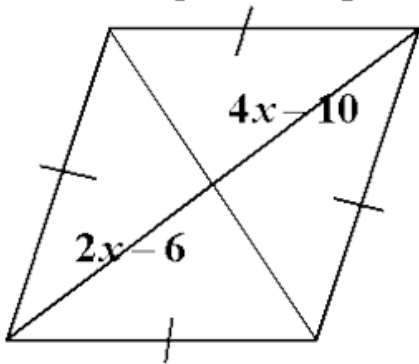
$$m\angle A = (9x - 14)^\circ$$

$$m\angle B = (3x + 2)^\circ$$

Classify each statement as always, sometimes, or never true.

4. The opposite angles between the non-congruent sides of a kite are congruent.
5. The rectangle is a quadrilateral.
6. A quadrilateral is a trapezoid.
7. The four sides of a rectangle are congruent.

1. Given the parallelogram, find  $x$ .



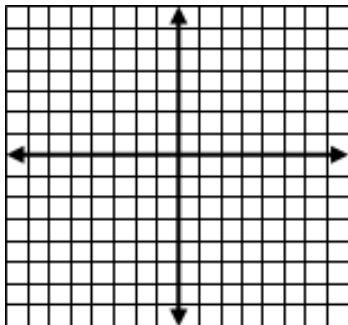
2. Find the area of a rhombus with one diagonal of 16 cm and a side of 10 cm.

3. Find the area of a kite with diagonals of 10 cm and 18 cm.

4. The cost of health insurance for Mary is \$368 a month. If the cost increases by 10%, what is the new cost of insurance?

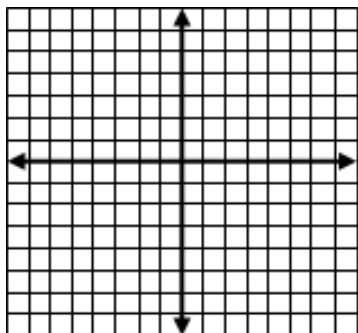
1. Determine the most precise name for each quadrilateral. Then find its area.

$A(-6, 3)$ ,  $B(-2, 0)$ ,  $C(-2, -5)$ ,  $D(-6, -2)$



2. Determine whether  $\triangle XYZ$  is scalene, isosceles, or equilateral.

$X(4, 2)$ ,  $Y(2, -2)$ ,  $Z(-2, 0)$



3. Is this a linear relationship?

x	y
-1	-3
0	-1
1	1
2	3
3	5