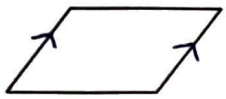
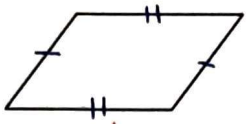
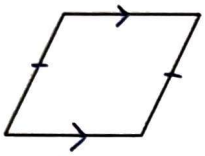
Name Key Chapter 7 4-5 Review Period _____

1. Are the following parallelograms?


No


Yes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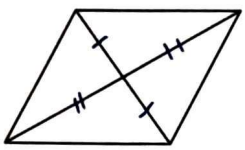

Yes

2. Is the following figure a rectangle, a rhombus, or a square? List all the possible options. A(-15,4) B(-13,4) C(-13,-3) D(-15,-3)

$AB = \frac{4-4}{-13+15} = \frac{0}{2}$ 0 $\sqrt{0^2+2^2} = 2$

$BC = \frac{-3-4}{-13+13} = \frac{-7}{0}$ und $\sqrt{7^2+0^2} = 7$

$CD = \frac{-3+3}{-15+13} = \frac{0}{-2}$ 0 $\sqrt{0^2+2^2} = 2$

$AD = \frac{-3-4}{-15+15} = \frac{-7}{0}$ und $\sqrt{7^2+0^2} = 7$

Rect.

3. List all the possible choices

a) Only 2 sides parallel

Trap + iso Trap

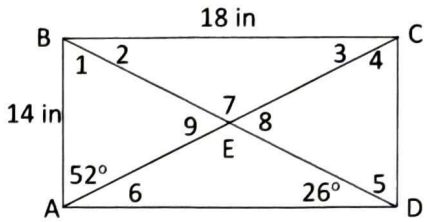
b) Diagonals bisect each other

Parallelogram, Rhombus, Rectangle, square

c) consecutive sides congruent

Kite, Rhombus, Square

4. Fill in all the missing pieces of information for the rectangle.



$\angle 1 = 64^\circ$ $\angle 2 = 26^\circ$

$\angle 3 = 38^\circ$ $\angle 4 = 52^\circ$

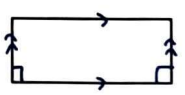
$\angle 5 = 64^\circ$ $\angle 6 = 38^\circ$

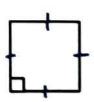
$\angle 7 = 116^\circ$ $\angle 8 = 64^\circ$

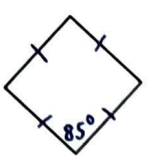
$\angle AED = 116^\circ$ $\angle 9 = 64^\circ$

$\overline{AD} = 18$ in $\overline{CD} = 14$ in

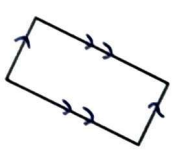
5. Give the most specific name for the following figures.


Rectangle


square



Rhombus


Parallelogram

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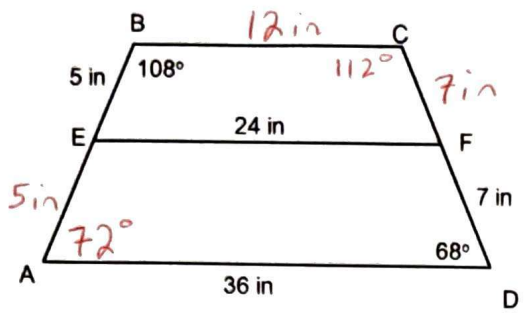
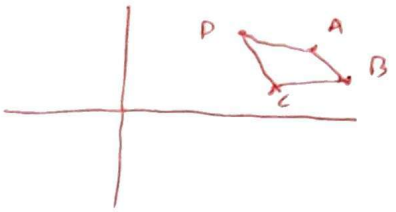
6. If $\overline{EF}$ is the midsegment. Find the following. ∠A, ∠C, , $\overline{BC}, \overline{AE}, \overline{CF}, \overline{CD}$



8. Find the length of the midsegment of the following trapezoid.

A(18,6) B(20,5) C(18,2) D(12,5)



$mid_{AD} = (15, 5.5)$

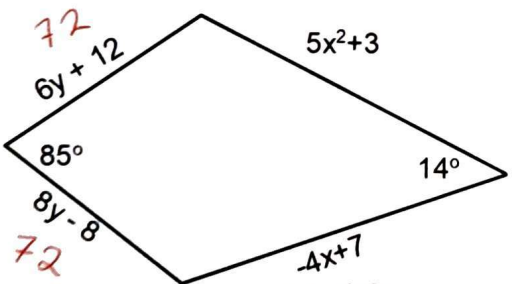
$mid_{BC} = (19, 3.5)$

$d = \sqrt{4^2 + 2^2}$

$\sqrt{20}$

$2\sqrt{5}$ or 4.47

7. Find the missing angles and the perimeter for the following figure.



4.68
or
12.52

$6y + 12 = 8y - 8$

$-6y + 8 \quad -6y + 8$

$\frac{20}{2} = \frac{2y}{2}$

$10 = y$

$5x^2 + 3 = -4x + 7$

$5x^2 + 4x - 4 = 0$

$\frac{-4 \pm \sqrt{4^2 - 4(5)(-4)}}{2(5)}$

$\frac{-4 \pm \sqrt{96}}{10}$

$x = 0.58, -1.38$