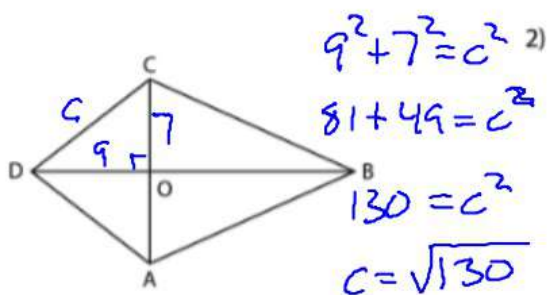


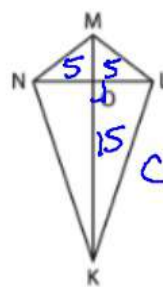
A) Find the indicated side length in each kite. Round your answer to the nearest tenth.

1)



OC = 7 in; OD = 9 in

CD = 11.4



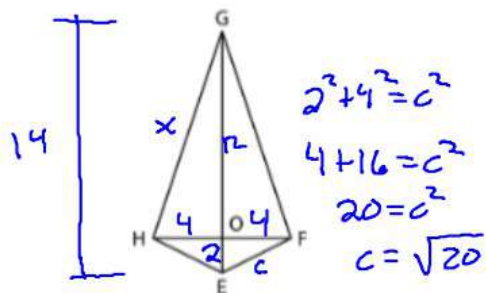
$5^2 + 15^2 = c^2$
 $25 + 225 = c^2$
 $250 = c^2$

ON = 5 ft; OK = 15 ft

KL = 15.8

B) Find the indicated side lengths in each kite. Round your answer to the nearest tenth.

5)

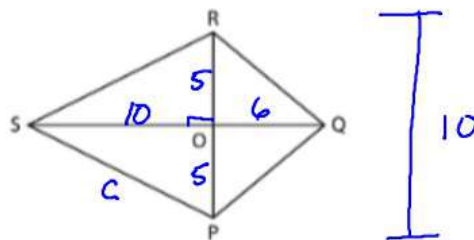


OE = 2 ft; OF = 4 ft; EG = 14 ft

EF = 4.5; GH = 12.6

$12^2 + 4^2 = x^2$
 $144 + 16 = x^2$
 $160 = x^2$
 $x = \sqrt{160}$

6)



RP = 10 yd; OQ = 6 yd; OS = 10 yd

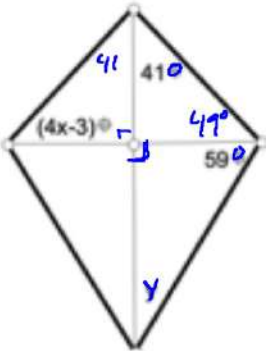
RQ = 7.8; PS = 11.2

$5^2 + 6^2 = (RQ)^2$
 $25 + 36 = (RQ)^2$
 $61 = (RQ)^2$
 $RQ = \sqrt{61}$

$10^2 + 5^2 = c^2$
 $100 + 25 = c^2$
 $125 = c^2$
 $c = \sqrt{125}$

9. Kite

$$x = \underline{13}, y = \underline{31}$$



$$90 + y + 59 = 180$$

$$y = 31$$

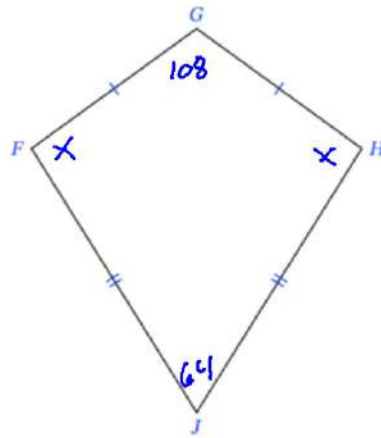
$$4x - 3 = 49$$

$$\frac{4x}{4} = \frac{52}{4}$$

$$x = 13$$

$$4x + 3 + 41 + 90 = 180$$

Given that $FGHJ$ is a kite, where $m\angle FGH = 108^\circ$ and $m\angle FJH = 64^\circ$, find $m\angle GFJ$.



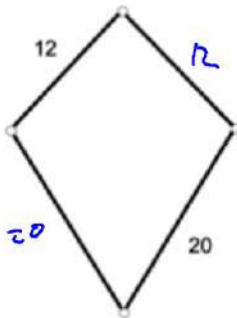
$$x + x + 64 + 108 = 360$$

$$2x + 172 = 360$$

$$2x = 188$$

$$x = 94^\circ$$

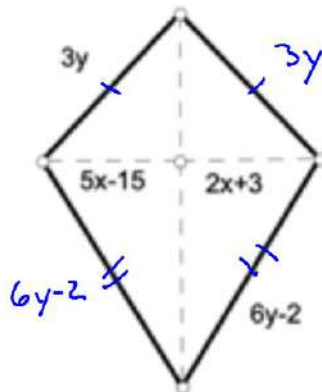
1. Kite



$$\text{Perimeter} = 64$$

$$12 + 12 + 20 + 20 = P$$

4. Kite's Perimeter=86



Find x and y

$$5x - 15 = 2x + 3$$

$$3x = 18$$

$$x = 6$$

$$3y + 3y + 6y - 2 + 6y - 2 = 86$$

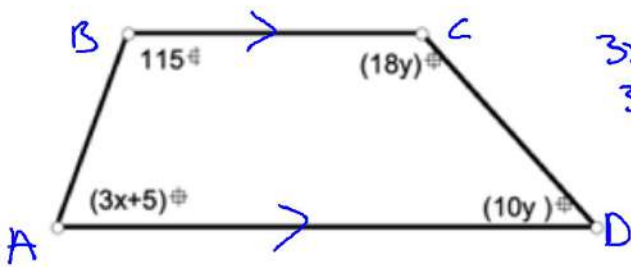
$$18y - 4 = 86$$

$$18y = 90$$

$$y = 5$$

8. Trapezoid

$$x = \underline{\quad}, y = \underline{\quad}$$

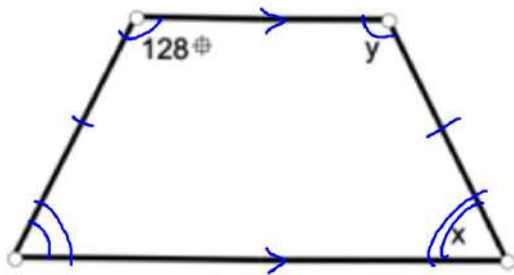


$$\begin{aligned} 3x + 5 + 115 &= 180 \\ 3x + 120 &= 180 \\ 3x &= 60 \\ x &= 20 \end{aligned}$$

$$\begin{aligned} 18y + 10y &= 180 \\ 28y &= 180 \\ y &= 6.4 \end{aligned}$$

3. Isosceles Trapezoid

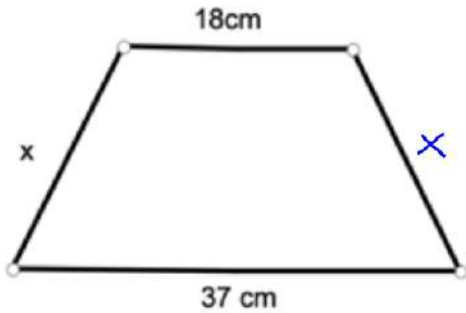
$$x = \underline{52}, y = \underline{128^\circ}$$



$$128 + 128 + x + x = 360$$

$$\begin{aligned} x + 128 &= 180 \\ x &= 52 \end{aligned}$$

6. Isosceles Trapezoid's Perimeter=85 cm



$x = \underline{\hspace{2cm}}$

$$x + x + 18 + 37 = 85$$

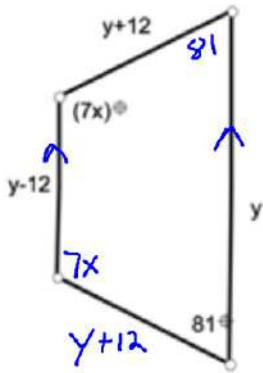
$$2x + 55 = 85$$

$$2x = 30$$

$$x = 15 \text{ cm}$$

5. Isosceles Trapezoid's Perimeter=164 cm

$x = \underline{\hspace{2cm}}, y = \underline{\hspace{2cm}}$



$$y + 12 + y - 12 + y + 12 + y = 164$$

$$4y + 12 = 164$$

$$4y = 152$$

$$y = 38$$

$$7x + 81 = 180$$

$$7x = 99$$

$$x = 14.14$$

