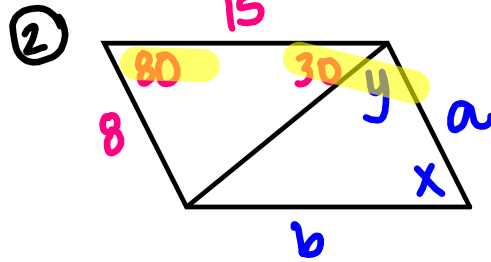
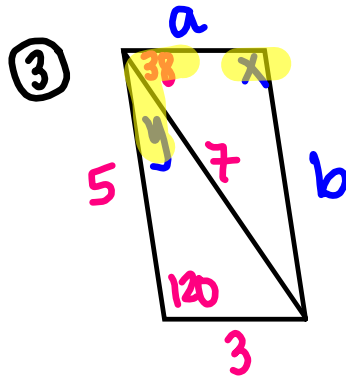


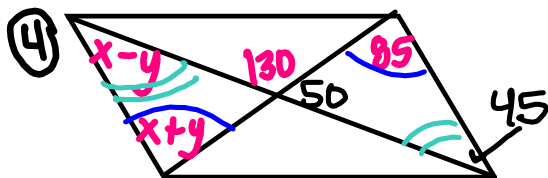
$$\begin{aligned}
 a &= 10 \\
 b &= 8 \\
 x &= 118^\circ \\
 y &= 62^\circ
 \end{aligned}$$



$$\begin{aligned}
 a &= 8 \\
 b &= 15 \\
 x &= 80^\circ \\
 y &= 70^\circ
 \end{aligned}$$

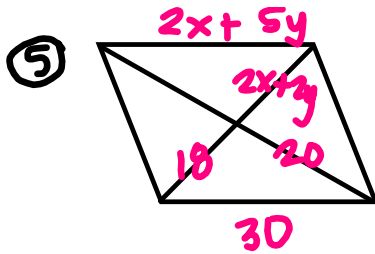


$$\begin{aligned}
 a &= 3 & x &= 120^\circ \\
 b &= 5 & y &= 22^\circ
 \end{aligned}$$



$$\begin{array}{r}
 65 + y = 85 \\
 -65 \quad -65 \\
 \hline
 y = 20
 \end{array}$$

$$\begin{array}{r}
 x + y = 85 \\
 x - y = 45 \\
 \hline
 2x = 130 \\
 \frac{2x}{2} = \frac{130}{2} \\
 x = 65
 \end{array}$$



$$2x + 2y = 18$$

$$-1 \cdot (2x + 5y) = (30) \cdot -1$$

$$\begin{array}{r} 2x + 2y = 18 \\ -2x - 5y = -30 \\ \hline -3y = -12 \\ \frac{-3y}{-3} = \frac{-12}{-3} \\ y = 4 \end{array}$$

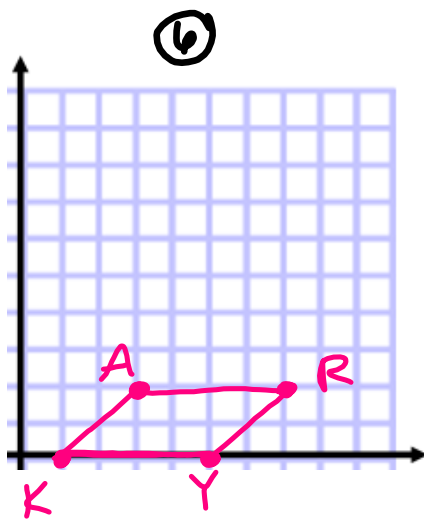
$$2x + 2(4) = 18$$

$$2x + 8 = 18$$

$$\begin{array}{r} 2x + 8 = 18 \\ -8 \quad -8 \\ \hline 2x = 10 \end{array}$$

$$\frac{2x}{2} = \frac{10}{2}$$

$$x = 5$$



K(1,0) Y(5,0)

R(7,2) A(3,2)

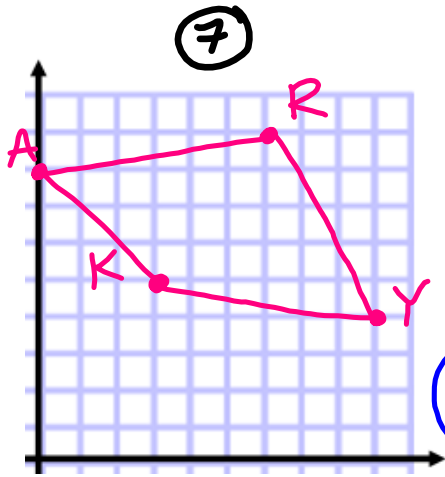
KA: $m = \frac{2}{2} = 1$ } pair opp sides //

YR: $m = \frac{2}{2} = 1$ }

AR: $m = 0$ } pair opp. sides //

KY: $m = 0$ }

KYRA is b/c both pairs opp. sides //



$$K(3, 5) \quad Y(9, 4)$$

$$R(6, 9) \quad A(0, 8)$$

$$\frac{KR}{2} \quad \left(\frac{3+6}{2}, \frac{5+9}{2} \right)$$

$$\frac{AY}{2} \quad \left(\frac{0+9}{2}, \frac{8+4}{2} \right)$$

$$\left(\frac{9}{2}, 7 \right)$$

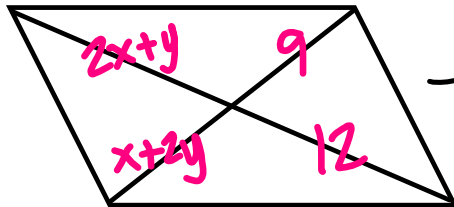
$$\left(\frac{9}{2}, 6 \right)$$

don't have same mdpt

∴ diag. don't bisect

∴ KYRA is not \square

⑧



$$2x + y = 12$$

$$-2 \cdot (x + 2y) = (9) \cdot -2$$

$$\begin{array}{r} 2x + 2 = 12 \\ \underline{-2 \quad -2} \end{array}$$

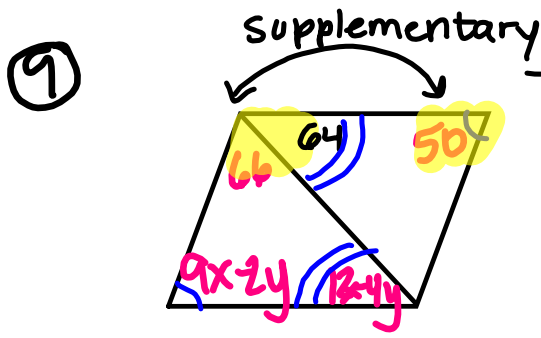
$$\frac{2x}{2} = \frac{10}{2}$$

$$x = 5$$

$$\begin{array}{r} 2x + y = 12 \\ \underline{-2x - 4y = -18} \end{array}$$

$$\frac{-3y}{-3} = \frac{-6}{-3}$$

$$y = 2$$



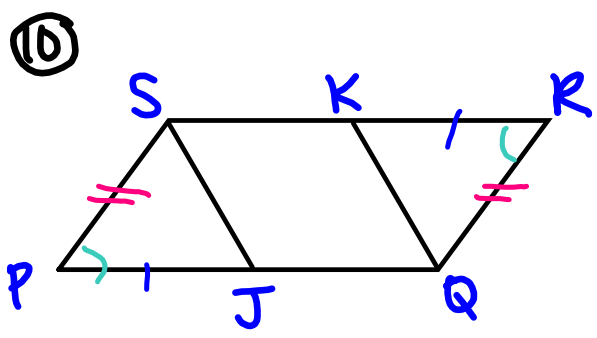
$$-2 \cdot (9x - 2y) = (50) \cdot -2$$

$$12x - 4y = 64$$

$$\begin{array}{r} -18x + 4y = -100 \\ 12x - 4y = 64 \\ \hline -6x = -36 \\ \frac{-6x}{-6} = \frac{-36}{-6} \\ x = 6 \end{array}$$

$$9(6) - 2y = 50$$

$$\begin{array}{r} 54 - 2y = 50 \\ -54 \quad -54 \\ \hline -2y = -4 \\ \frac{-2y}{-2} = \frac{-4}{-2} \\ y = 2 \end{array}$$



- ① $\square PQRS, PJ \cong RR$
- ② $\overline{SP} \cong \overline{RQ}$
- ③ $\angle P \cong \angle R$
- ④ $\triangle SPJ \cong \triangle QRK$
- ⑤ $\overline{SJ} \cong \overline{QK}$

- ① given
- ② opp. sides of $\square \cong$
- ③ opp. \angle of $\square \cong$
- ④ SAS
- ⑤ CPCTC