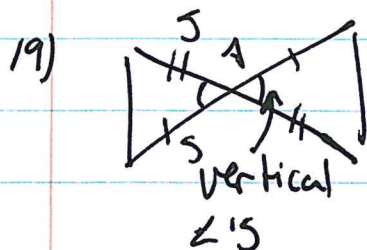


15⁺ Semester Exam Review Part II

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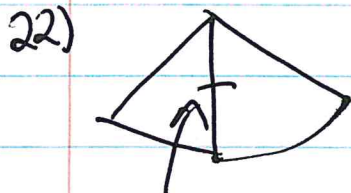
- 6) $\angle U$ 10) $\overline{QR} \cong \overline{YX}$, so 3 12) 35°



yes, SAS

20) yes, AAS

21) yes, AAS, then CPCTC



yes, $\Delta\text{'s}$ by ASA, then $\overline{BE} \cong \overline{DE}$
by CPCTC

by reflexive

23) yes, $\Delta\text{'s}$ by SSS, then $\angle\text{'s}$ by CPCTC

24) $\Delta\text{'s}$ by SAS, then CPCTC

25) $x = 4$

$$180 - 50 = 130$$

$$\div 2$$

$$65^\circ = y$$

26) $180 - 125 = 55^\circ = x$

$$180 - 55 = 125^\circ$$

$$\div 2$$

$$62.5^\circ = y$$

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14) In Class

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$$4) \frac{1}{2}(30) = 15$$

$$11) \begin{array}{r} 3y = 5y - 22 \\ -5y \quad -5y \\ \hline -2y = -22 \\ y = 11 \end{array}$$

12) $3(11) = 33$

22) median

$$32) 5 + 8 = 13 < 15, \text{ so no}$$

$$33) 10 + 12 = 22 > 20, \text{ so yes}$$

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10) ~~JK, JL, JM~~
 $\overline{KV}, \overline{JM}, \overline{KM}$

$$13) \begin{array}{r} 5x - 8 = 2x + 13 \\ -2x + 8 \quad -2x + 8 \\ \hline 3x = 21 \\ x = 7 \end{array}$$

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$$6) (16 - 2)180$$

$$14(180) = \frac{2520}{16} = 157.5^\circ \text{ interior}$$

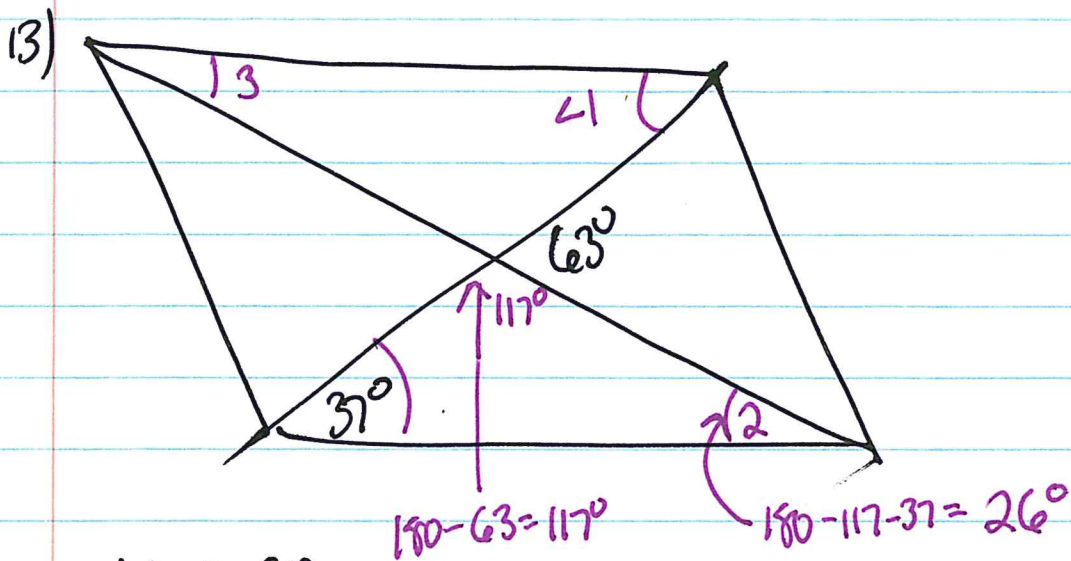
$$\text{ext. } \frac{360}{16} = 22.5^\circ$$

$$8) 360^\circ$$

$$10) 360 - 122 - 90 - 79 = 69^\circ$$

$$12) \angle 2 = 79^\circ$$

$$180 - 79 = 101^\circ = \angle 1 = \angle 3$$



$AB = CD$

16) $2y + 1 = 7x - 3$

$2(y + 3) = 2x + 4$

$-2y + 6 = 4x + 8$

$-5 = 3x - 11$

$6 = 3x$

$2 = x$

$y + 3 = 2(2) + 4$

$y + 3 = 8$

$y = 5$

$\angle 3 = \angle 2 = 26^\circ$

$\angle 1 = 37^\circ$

20) $3y - 3 = 3x$

$-(3y + 1 = 4x + 2)$

$0 - 2 = -1x + 2$

$-4 = -x$

$4 = x$

$3y - 3 = 3(4)$

$3y - 3 = 12$

$3y = 15$

$y = 5$

$$31) \begin{array}{r} 5x - 30 = 3x + 6 \\ -3x + 30 \quad -3x + 30 \\ \hline \end{array}$$

$$2x = 36$$

$$x = 18$$

$$32) \begin{array}{r} 2x - 1 = x + 3 \\ -x + 1 \quad -x + 1 \\ \hline \end{array}$$

$$x = 4$$