

Geometry Final Exam PP 3

1) 126°

2) $(x-2)^2 + (y+3)^2 = 25$

3) $A = 44.4^\circ$

4) $y = 5\sqrt{3}$ $x = 10\sqrt{3}$

5) $7\text{cm} < X < 19\text{cm}$

6) $A'(-4, 8)$ $A''(8, 4)$

7) $y = 27^\circ$ $\angle 1 = 115^\circ$ $\angle 2 = 115^\circ$ $\angle 3 = 148^\circ$ $\angle 4 = 32^\circ$

- 8) • The perimeter doubles
• The area gets 4 times bigger
• The area gets 9 times bigger

9) $(n-2)180^\circ$

10) 1440°

11) 360°

12) Opp sides are \parallel

Opp sides are \cong

Opp angles are \cong

Consecutive angles are supplementary

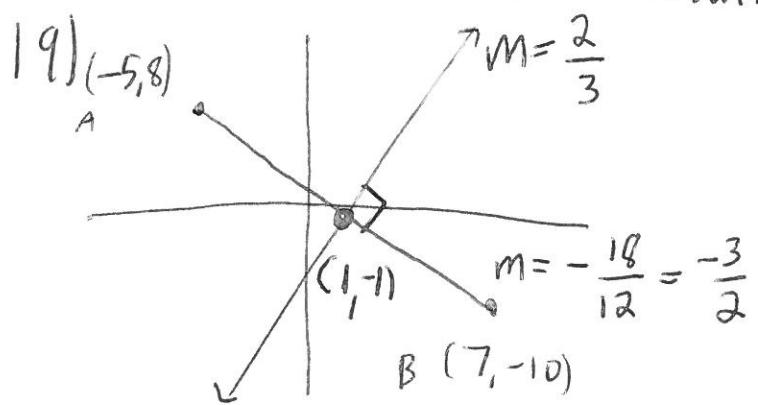
Diagonals bisect each other.

13) Perpendicular bisectors

14) Equidistant to ~~sides~~ in a triangle.
Vertices

- 15) Angle bisectors
 16) Equidistant to sides
 17) Medians

18) A centroid divides the median into a 2:1 ratio.



$$y + 1 = \frac{2}{3}(x - 1)$$

$$y + 1 = \frac{2}{3}x - \frac{2}{3}$$

$$y = \frac{2}{3}x - \frac{5}{3}$$

20) $9x - 8 = 50 + 5x - 10$

$$4x = 48$$

$$x = 12$$

21) $1080 = (n - 2)180$

$$6 = n - 2$$

$$\textcircled{n=8} \quad 135^\circ, 45^\circ$$

22) $71^\circ \rightarrow x = 9 \quad y = 10.5$

23)

24) $x = 3.75 \quad y = 9.75$

$$\textcircled{25} \quad \frac{9}{x} = \frac{21}{14} \quad AB = 9\sqrt{2}$$

$$21x = 126 \quad CB = 18$$

$$x = 6$$

$$\textcircled{26} \quad AB = 9\sqrt{2}$$

$$CB = 18$$

$$\textcircled{27} \quad A(7, -2)$$

$$A^I(7, 2)$$

$$A^{II}(2, 7)$$

$$\textcircled{28} \quad x^2 = 6 \cdot 3$$

$$x^2 = 18$$

$$x = \sqrt{18} = 3\sqrt{2}$$

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