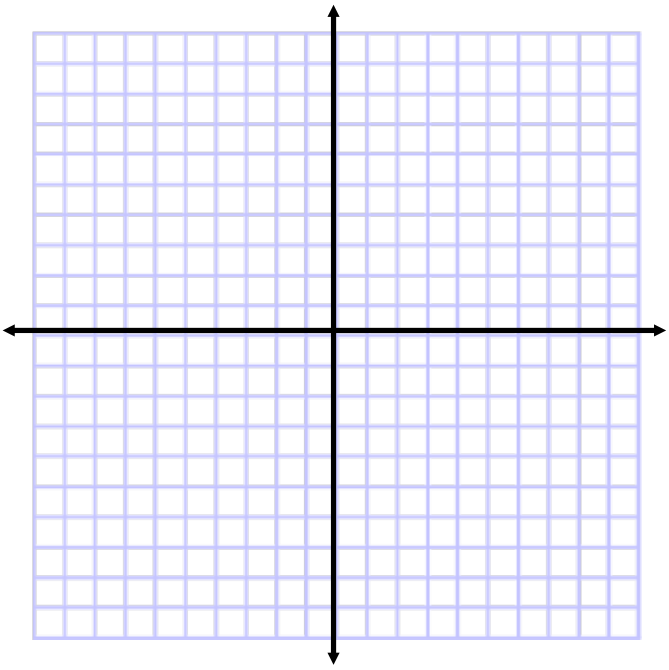
Solving the following system by graphing

$y = 2x - 4$

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



1. 34 cm

27 cm

2. 132°

48°

3. 16 in.

14 in.

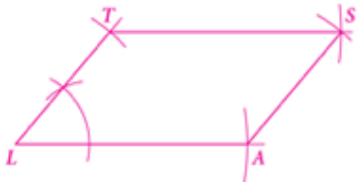
4. 63 m

5. 80

6. 63°

78°

7.



15. $x = 104°$, $y = 98°$. The quadrilaterals on the left and right sides are kites. Nonvertex angles are congruent. The quadrilateral at the bottom is an isosceles trapezoid. Base angles are congruent, and consecutive angles between the bases are supplementary.

17. No. The congruent angles and side do not correspond.

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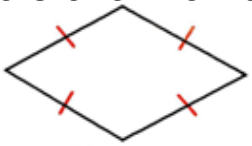
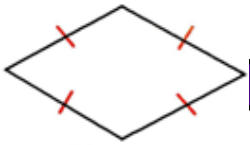
Investigation 5.5 on Sketchpad

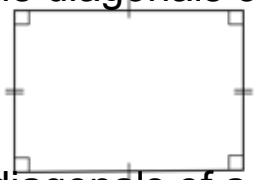
Rhombus Diagonals Conjecture: the diagonals of a rhombus are perpendicular, and they bisect each other



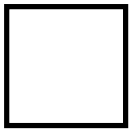
Rhombus Angles Conjecture: the diagonals of a rhombus bisect the angles of the rhombus



Rectangle Diagonals Conjecture: the diagonals of a rectangle are congruent and bisect each other



Square Diagonals Conjecture: the diagonals of a square are congruent, perpendicular, and bisect each other



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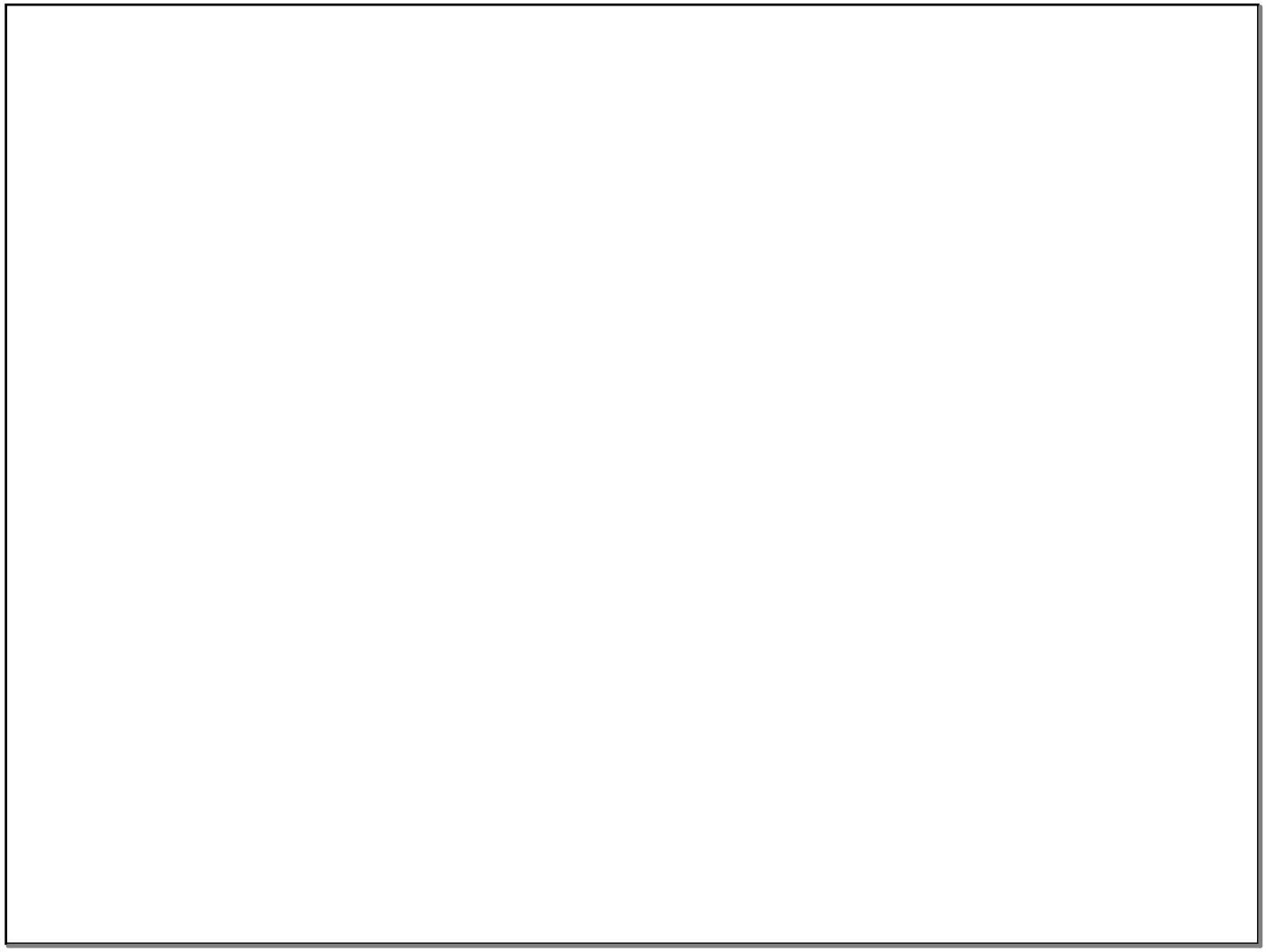
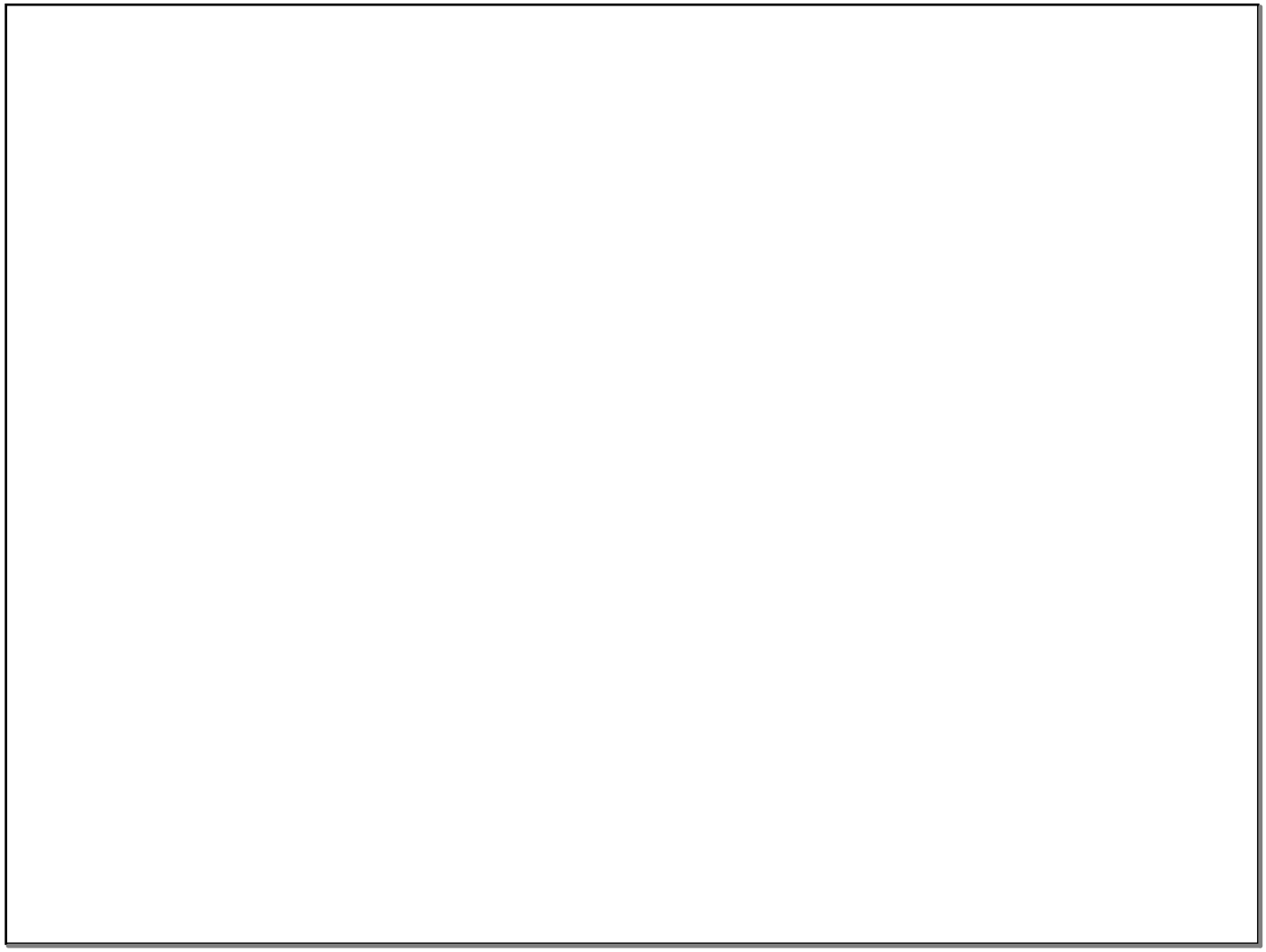
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