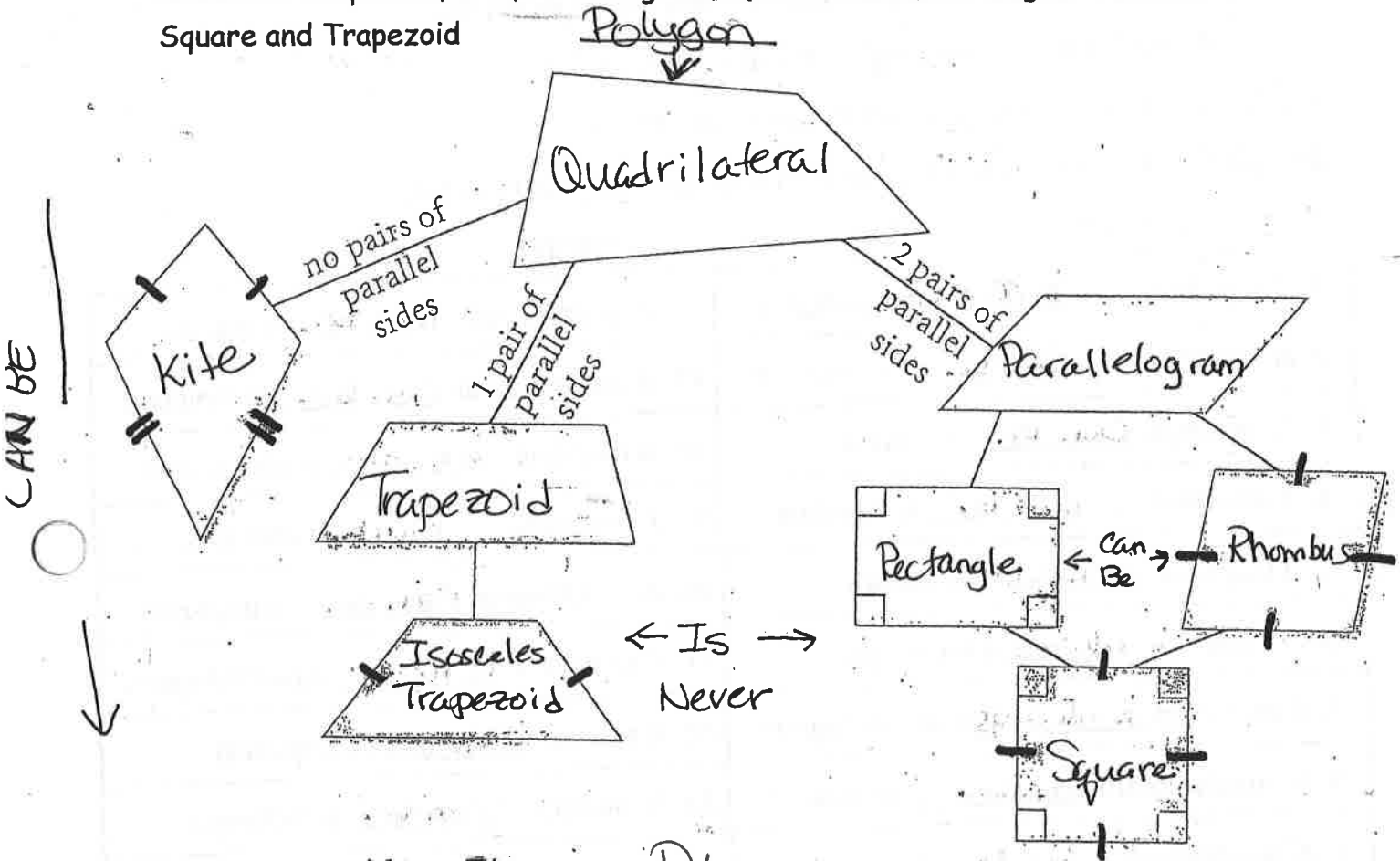


Quadrilaterals

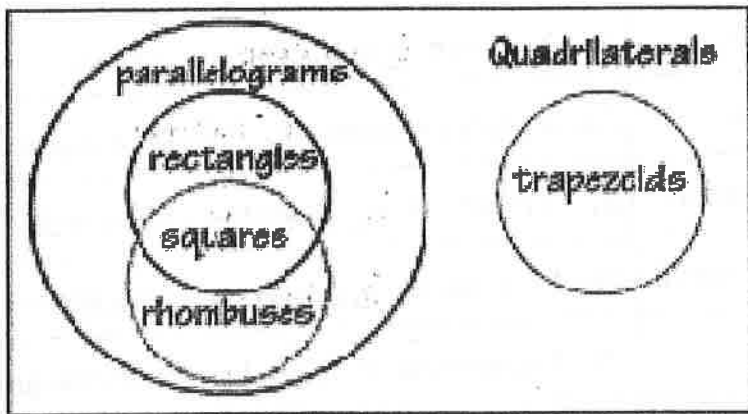
The diagram below shows the relationship among special quadrilaterals.

Label each polygon appropriately, using the following labels.

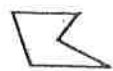
Isosceles Trapezoid, Kite, Parallelogram, Quadrilateral, Rectangle, Rhombus, Square and Trapezoid



Venn Diagram - Polygons



GEOMETRIC CONCLUSIONS



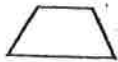
A POLYGON is a closed, plane figure with sides that are line segments.



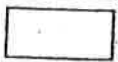
A QUADRILATERAL is a polygon with four sides.



A PARALLELOGRAM is a quadrilateral with two pairs of parallel sides.



A TRAPEZOID is a quadrilateral with exactly one pair of parallel sides.



A RECTANGLE is a quadrilateral with four right angles.



A SQUARE is a rectangle with four equal sides.



A RHOMBUS is an equilateral quadrilateral.

Complete each sentence below with the appropriate phrase:

can be

is always

is never

1. A parallelogram <u>is always</u> a polygon.	16. A quadrilateral <u>can be</u> a square.
2. A parallelogram <u>can be</u> a rectangle.	17. A parallelogram <u>can be</u> a rhombus.
3. A rectangle <u>can be</u> a square.	18. A rhombus <u>is always</u> a quadrilateral.
4. A quadrilateral <u>can be</u> a rhombus.	19. A rectangle <u>can be</u> a rhombus.
5. A trapezoid <u>is never</u> a square.	20. A quadrilateral <u>can be</u> a trapezoid.
6. A square <u>is always</u> a rectangle.	21. A trapezoid <u>is never</u> a parallelogram.
7. A rectangle <u>is always</u> a parallelogram.	22. A square <u>is never</u> a trapezoid.
8. A parallelogram <u>can be</u> a square.	23. A rhombus <u>can be</u> a rectangle.
9. A quadrilateral <u>can be</u> a rectangle.	24. A rectangle <u>is never</u> a trapezoid.
10. A square <u>is always</u> a parallelogram.	25. A square <u>is always</u> a rhombus.
11. A trapezoid <u>is never</u> a rhombus.	26. A parallelogram <u>is never</u> a trapezoid.
12. A rhombus <u>is always</u> a parallelogram.	27. A rhombus <u>is never</u> a trapezoid.
13. A parallelogram <u>is always</u> can be a quadrilateral.	28. A trapezoid <u>is always</u> a quadrilateral.
14. A rhombus <u>can be</u> a square.	29. A quadrilateral <u>can be</u> a parallelogram.
15. A trapezoid <u>is never</u> a rectangle.	30. A polygon <u>can be</u> a quadrilateral.