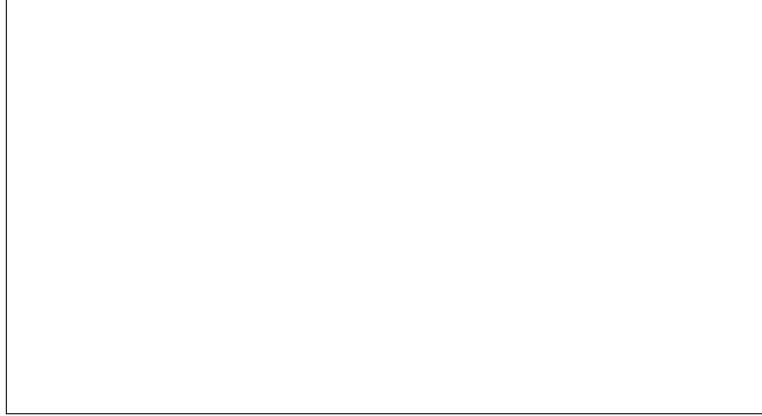


PROPERTIES OF QUADRILATERALS

A QUADRILATERAL CLASSIFICATION

A.1 CONSTRUCTING QUADRILATERALS WITH A RULER AND SET SQUARE

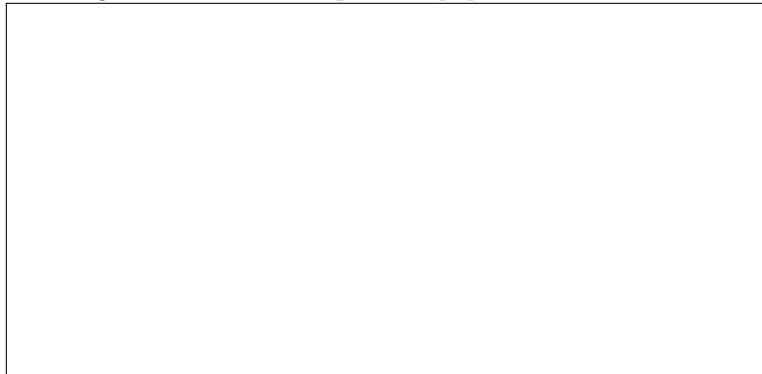
Ex 1: Construct a square $ABCD$ with side length $AB = 3$ cm using a ruler and a set square on paper.



Ex 2: Construct a rectangle $ABCD$ with side lengths $AB = 4$ cm and $AD = 3$ cm using a ruler and a set square on paper.



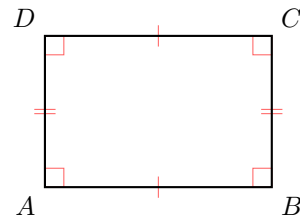
Ex 3: Construct a square $ABCD$ with diagonal length $AC = 3$ cm using a ruler and a set square on paper.



B PROPERTIES

B.1 CLASSIFYING QUADRILATERALS

MCQ 4: Classify the quadrilateral.



Choose all answers that apply:

- ☐ Parallelogram
- ☐ Rhombus
- ☐ Rectangle
- ☐ Square

MCQ 5: A square has four right angles.

- ☐ True
- ☐ False

MCQ 6: The opposite sides of a rhombus are parallel.

- ☐ True
- ☐ False

MCQ 7: The adjacent sides of a rectangle are parallel.

- ☐ True
- ☐ False

MCQ 8: A square is a special type of rectangle.

- ☐ True
- ☐ False

MCQ 9: A rectangle is a special type of square.

- ☐ True
- ☐ False

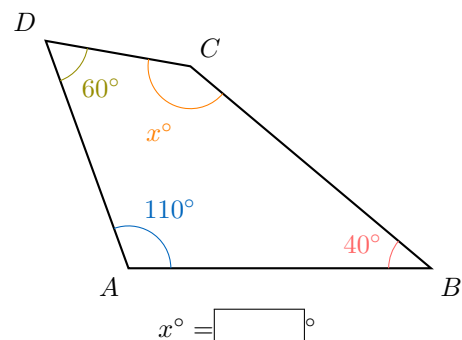
MCQ 10: A rectangle is a special type of parallelogram.

- ☐ True
- ☐ False

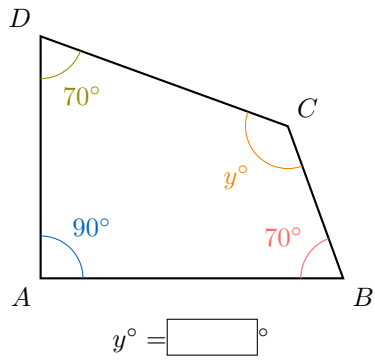
C ANGLES

C.1 FINDING AN UNKNOWN ANGLE

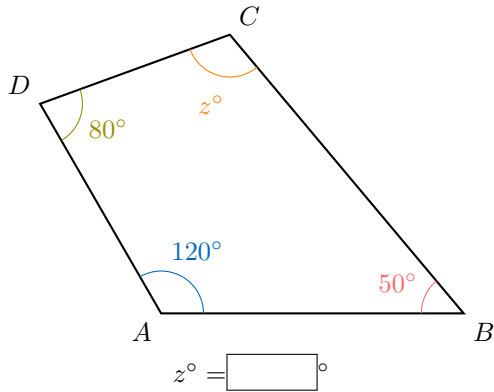
Ex 11: Find the unknown angle in the quadrilateral below:



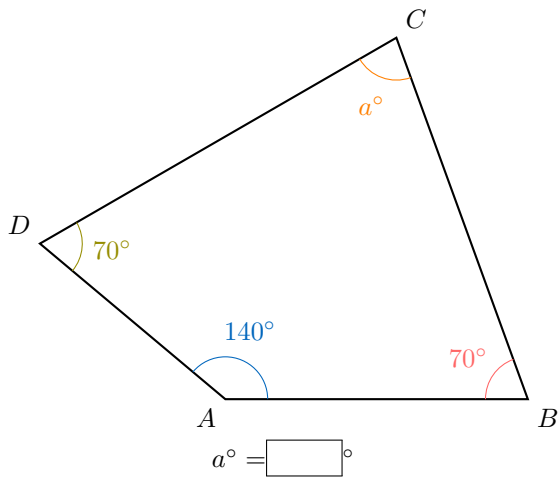
Ex 12: Find the unknown angle in the quadrilateral below:



Ex 13: Find the unknown angle in the quadrilateral below:

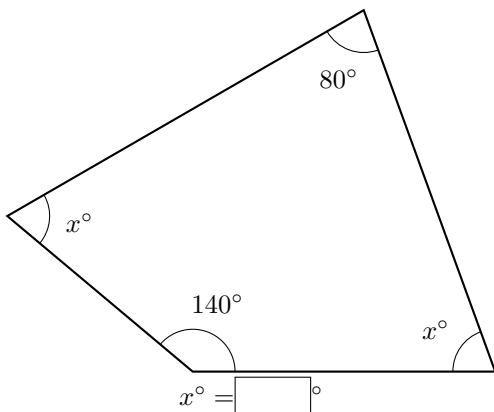


Ex 14: Find the unknown angle in the quadrilateral below:

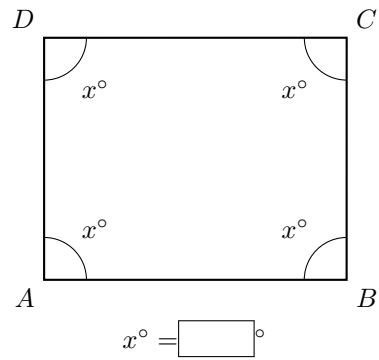


C.2 FINDING AN UNKNOWN ANGLE

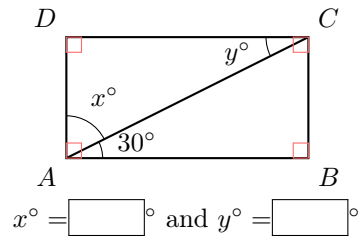
Ex 15: Find the unknown angles in the quadrilateral below:



Ex 16: Find the unknown angles in the quadrilateral below:



Ex 17: $ABCD$ is a rectangle. Find the unknown angles in the triangle below:



Ex 18: $ABCD$ is a parallelogram. Find the unknown angle in the quadrilateral below:

