**Question 1 (9 points):**

Use a ruler and protractor to draw:

1. a concave quadrilateral with at least one 45O angle.
2. a convex quadrilateral with at least one 45O angle.
3. A parallelogram with at least one 90O angle.

**Question 2 (4 points):**

Identify the type of quadrilateral, find the value of the angle marked with an “x”, and justify how you found the angle.



Type of quadrilateral: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X = \_\_\_\_\_\_\_\_\_\_

Justification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question 3 (4 points):**

Identify the type of quadrilateral, find the value of the angle marked with an “x”, and justify how you found the angle.



Type of quadrilateral: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X = \_\_\_\_\_\_\_\_\_\_

Justification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question 4 (4 points):**

Identify the type of quadrilateral, find the value of the angle marked with an “x”, and justify how you found the angle.



Type of quadrilateral: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ X = \_\_\_\_\_\_\_\_\_\_

Justification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Question 5 (3 points):**

Draw the diagonals of the figure in Question 4. Justify the statement “the diagonals of the figure, in Question 4, are equal.”

Justification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_