[6] 1. (Short-answer questions) For each question, give the number being asked and write your final answer in the box provided. No partial marks will be awarded for this question. You do not need to simplify your answer.

(a) The remainder when 11^{1001} is divided by 50.

Answer:

(b) The number of edges in a simple graph with 22 vertices, each of which has degree six.