Practice worksheet | Proof and circle geometry

Direct proof and contradiction

Name: _____ Date: _____

6 questions | 16 marks

1. Prove that the sum of two even integers is even. [2 marks]

2. Prove that the product of two odd integers is odd. [3 marks]

3. Prove that consecutive integers have an even product. [3 marks]

4. Prove by contradiction that a real number cannot be both positive and negative. [2 marks]

5. Prove by contradiction that there is no largest integer. [3 marks]

6. A proof writes two odd numbers as $2k + 1$ and $2k + 1$. Explain the gap and repair it. [3 marks]