1.6 Proofs - Worksheet

Prove the following statements:

1. If n is odd, then 5n + 3 is even.

2. If n = ab where a > 0, b > 0 and a and b integers, then $a \le \sqrt{n}$ or $b \le \sqrt{n}$.

3. If 3n + 2 is odd, then n is odd.

4. For all integers n: n is odd if and only if 5n + 3 is even.