6. Use a direct proof to show that the product of two odd numbers is odd.

10. Use a direct proof to show that the product of two rational numbers is rational.

14. Prove that if \( x \) is rational and \( x \neq 0 \), then \( 1/x \) is rational.

16. Prove that if \( m \) and \( n \) are integers and \( mn \) is even, then \( m \) is even or \( n \) is even.