And the next American Idol is __________________________

1. A rational function is a function of the form _______, where \( p \) and \( q \) are _________ and \( q \) is not the _________ _________.

2. **True** or **False**: All polynomials are rational functions.

3. **True** or **False**: A rational function can cross a vertical asymptote.

4. **True** or **False**: A rational function can cross a horizontal asymptote.

5. **True** or **False**: A rational function can cross an oblique asymptote.

6. What does it mean for a rational function to be proper?

7. What are the two cases when a rational function has a horizontal asymptote? What are the asymptotes in these cases?

8. When does a rational function have an oblique asymptote?

9. **True** or **False**: A rational function can have two or more horizontal asymptotes.