1. Construct a rational function with the following characteristics:

    Horizontal Asymptote: $y = 3$
    Vertical Asymptote: $x = 2$
    x-intercept at $x = -5$

2. Construct a rational function with the following characteristics:

    Horizontal Asymptote: $y = -4$
    Vertical Asymptotes: $x = \pm 3$
    No x-intercept

3. Construct a rational function with the following characteristics:

        Oblique Asymptote: $y = x + 4$

        Vertical Asymptote: $x = 5$

        x-intercept at $x = 2$

4. Construct a rational function with the following characteristics:

        Horizontal asymptote: $y = 2$

        Vertical Asymptote: $x = -1$

        Hole at $x = 5$

        x-intercept at $x = 2$