

Mail this assignment with your homework using snail mail

Pop test Rational Functions 11.6

I. In the graph: $f(x) = \frac{(x-1)(2x+1)}{(3x+1)(x-2)}$

- True False 1. There are vertical asymptotes at $x = -\frac{1}{3}$, $x = 2$, $x = 1$, $x = -\frac{1}{2}$.
- True False 2. There is there are x intercepts at $x = 1$, and $x = -\frac{1}{2}$.
- True False 3. There are no horizontal asymptotes.
- True False 4. There is a horizontal asymptotes at $y = 0$.
- True False 5. There are vertical asymptotes at $x = -\frac{1}{3}$, $x = 2$.
- True False 6. There are x intercepts at $x = -\frac{1}{3}$, $x = 2$.
- True False 7. There is a horizontal asymptote at $y = \frac{2}{3}$.
- True False 8. There is a horizontal asymptote at $y = 2$.
- True False 9. There are vertical asymptotes at $x = 1$, $x = -\frac{1}{2}$.
- True False 10. There is a slanted asymptote at $y = x - 1$.
- True False 11. There is a hole in the graph at $(1, \frac{1}{2})$.
- True False 12. There is a y intercept at $y = \frac{1}{2}$.

II. In the graph: $f(x) = \frac{(x-2)(x+3)}{(x-2)(x-1)}$

- True False 1. There is a slanted asymptotes at $y = 2x$.
- True False 2. There are vertical asymptotes at $x = 2$, $x = -3$, $x = 1$.
- True False 3. There is a vertical asymptote at $x = 1$.
- True False 4. There are vertical asymptotes at $x = 2$, and $x = 1$.
- True False 5. There are no horizontal asymptotes.
- True False 6. There is a horizontal asymptote at $y = 1$.
- True False 7. There is a horizontal asymptote at $y = 0$.
- True False 8. There is a hole in the graph at $(2, 5)$.
- True False 9. There is an x intercept at $x = -3$.
- True False 10. There is a x intercept at $x = -3$, $x = 2$.
- True False 11. There is a x intercept at $x = 2$.
- True False 12. There is a y intercept at $y = -3$.