Graphing Rational Polynomials

Graph the following functions.

Part I

1. $f(x) = \dfrac{10}{x+2}$

2. $g(x) = \dfrac{3}{x-4}$

3. $h(x) = \dfrac{-4}{(x+3)^2}$

4. $y = \dfrac{6}{(x-2)(x+4)}$

5. $F(x) = 2 + \dfrac{10}{x(x-3)}$

6. $G(x) = -3 + \dfrac{1}{(x+5)^2}$

7. $H(X) = 4 + \dfrac{2}{x^2+5x-6}$

8. $y = \dfrac{-10}{2x^2-13x+20}$

Part II

9. $f(x) = x + \dfrac{1}{x+5}$

10. $g(x) = \dfrac{x}{2} + \dfrac{1}{x^2-4x}$

11. $h(x) = 2x+1+\dfrac{1}{x^2+2x+1}$

12. $y = 6 - \dfrac{x}{3} + \dfrac{14}{x^2}$

Part III

13. $F(x) = \dfrac{x}{2x^2-32}$

14. $G(x) = 3 + \dfrac{2-x}{x^2}$

15. $H(x) = \dfrac{x}{2} + \dfrac{3x-9}{2x^2-x-15}$

16. $y = -\dfrac{2x}{3} + 2 + \dfrac{x-1}{x^3+4x-21}$