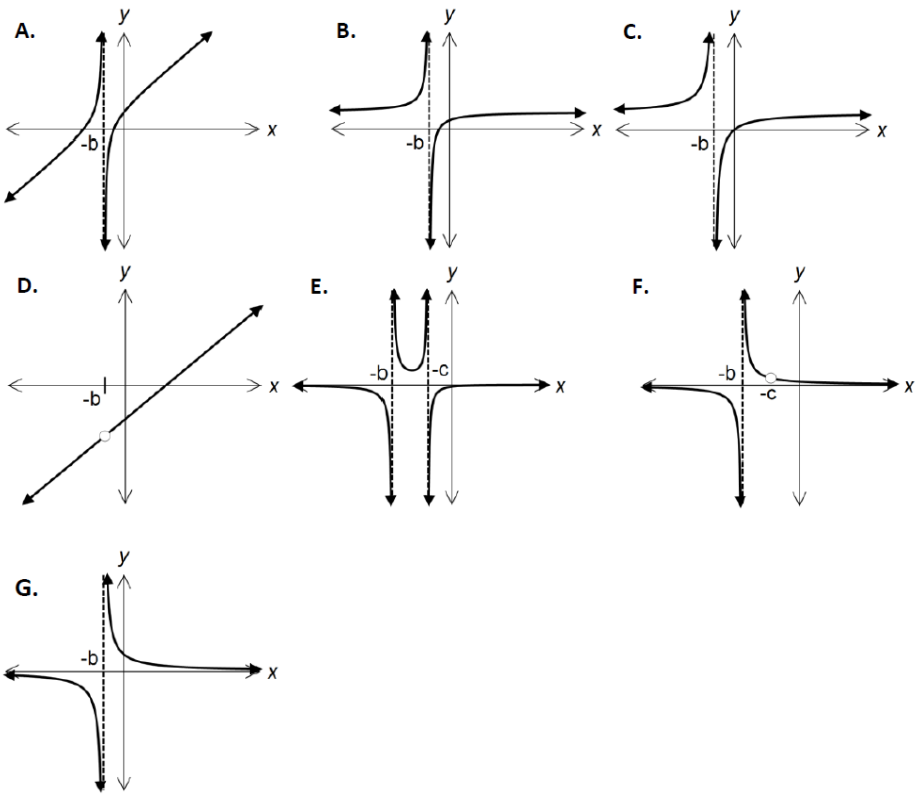
The equations of seven rational functions and the graphs of these functions are shown. Match the function equation to its graph and explain your reasoning.

1. $y = \dfrac{1}{x+b}$
2. $y = \dfrac{x}{x+b}$
3. $y = \dfrac{x+a}{x+b}$
4. $y = \dfrac{(x+a)(x+c)}{x+b}$
5. $y = \dfrac{(x+a)(x+b)}{x+b}$
6. $y = \dfrac{x+a}{(x+b)(x+c)}$
7. $y = \dfrac{x+c}{(x+b)(x+c)}$



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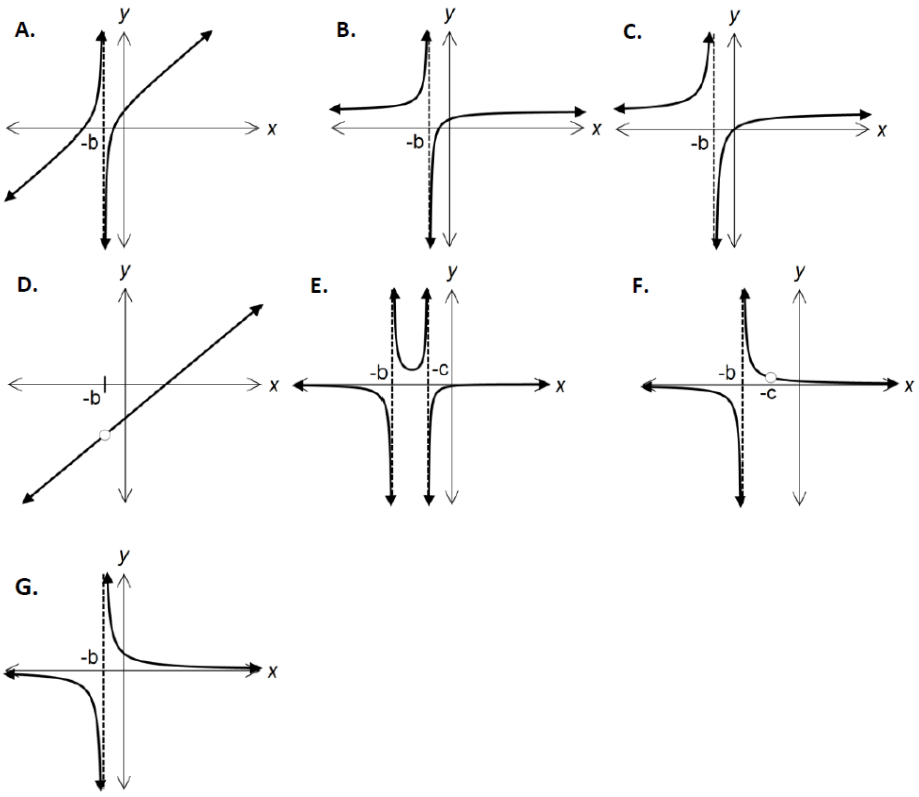
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