Selected Problems D.3

If 
$$f(x) = \frac{1}{(x^2 - 1)} + \frac{1}{(x^3 - 2)(2x - 1)}$$
 $f(x) = \frac{1}{(2x^2 - 1)} + \frac{1}{(x^3 - 2)(2)}$ 
 $f(x) = \frac{1}{(2x^2 - 1)} + \frac{1}{(x^3 - 2)(2)}$ 
 $f(x) = \frac{1}{(2x^2 - 2x - 2x - 2)}$ 
 $f(x) = \frac{1}{(x^2 + 1)^2}$ 
 $f(x) = \frac{1}{($