Conditions

x^2-x/x+5 * x^2+5x+4/x^4-x^2

perform the indicated operation. the values that would be excluded from the domain are?

Solution

$$\frac{x^2-x}{x+5}\cdot\frac{x^2+5x+4}{x^4-x^2}$$

The values that would be excluded from the domain are those, where denominators are 0. In other words, we must solve 2 equations to find them:

$$x+5=0, x=-5$$

$$x^4-x^2=0, x=0, x=-1, x=1$$

But as the numerator of 1st fraction has a factor (x-1), so the value x=1 is not excluded from the domain.

Answer: -5, 0, -1