

$\frac{5x^3 + 15x^2 + 10x}{3x^3 - 3x} = \frac{5x(x+2)(x+1)}{3x(x-1)(x+1)}$, so the domain of the expression excludes $x = 0$ (since when $x = 0$, $3x = 0$), 1, and -1. Simplifying the expression, you find that $\frac{5x^3 + 15x^2 + 10x}{3x^3 - 3x} = \frac{5(x+2)}{3(x-1)}$.