























Wherever there is a break in the domain,
it is either a,
or a

























One more time
$f(x) = \frac{3x^2 - 12x + 9}{2x^3 - x^2 - 15x}$
$=\frac{3(x-3)(x-1)}{x(2x+5)(x-3)}$
$x = 0, \ x = -\frac{5}{2}, \ \text{or } x = 3.$
Which restrictions are removable discontinuities, and which are vertical asymptotes??

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$$=\frac{3(x-3)(x-1)}{x(2x+5)(x-3)}$$

$$x = 0, x = -\frac{5}{2}, \text{ or } x = 3$$

Removable discontinuities happen at cancelled factors, so, there is a removable discontinuity at ______. Vertical asymptote lines happen at the remaining denominator factors, so there are vertical asymptotes at

One more time ... $f(x) = \frac{3x^2 - 12x + 9}{2x^3 - x^2 - 15x}$ $= \frac{3(x-3)(x-1)}{x(2x+5)(x-3)}$ $x = 0, x = -\frac{5}{2}, \text{ or } x = 3.$ Removable discontinuities happen at cancelled factors, so, there is a removable discontinuity at x=3. Vertical asymptote lines happen at the remaining denominator factors, so there are vertical asymptotes at x=0 and x=-5/2.































