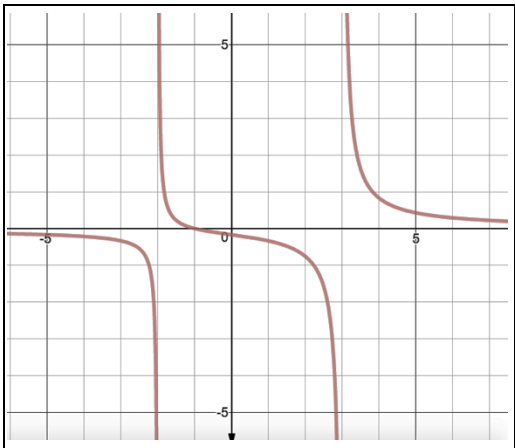
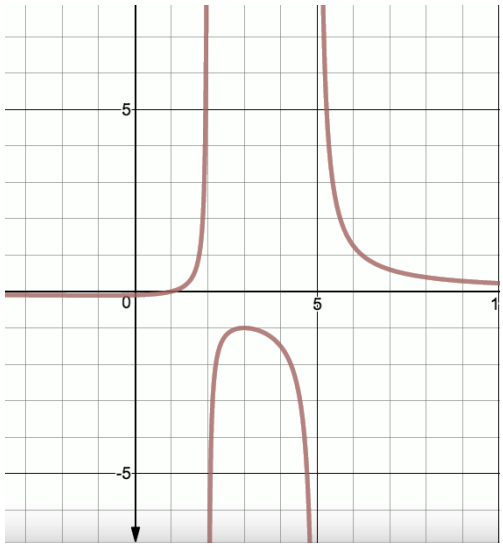
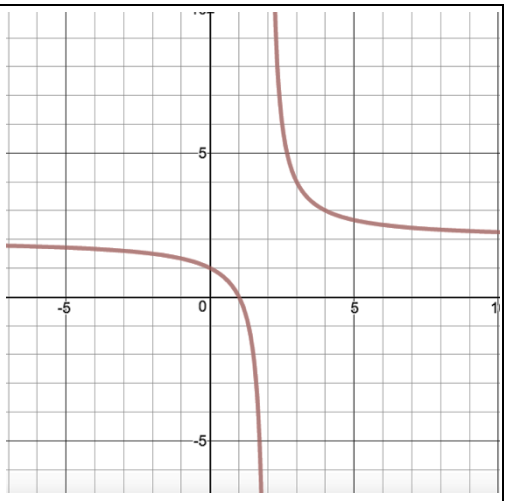
PC 3-7

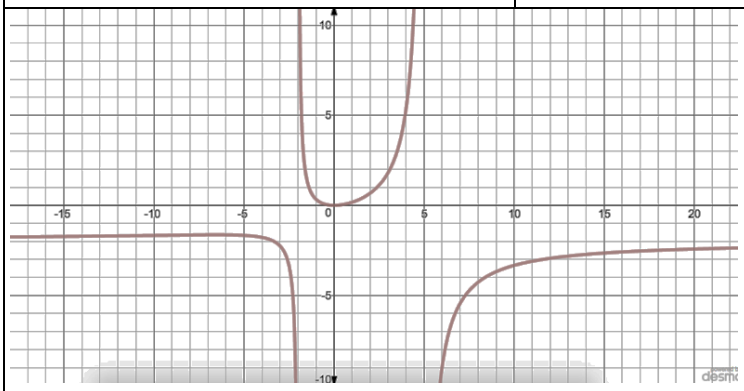
I can write the equation of a rational function given a graph.

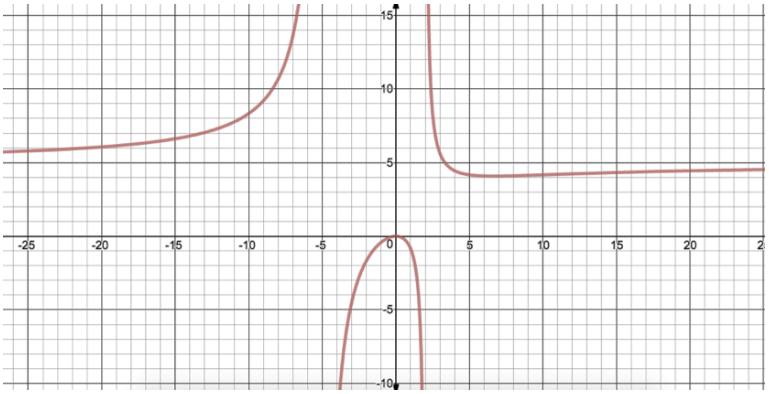
Given the graph, write a possible equation of the rational function. Verify with a graphing device. I'm grading on correct vertical asymptotes, horizontal asymptotes, and x-intercepts.

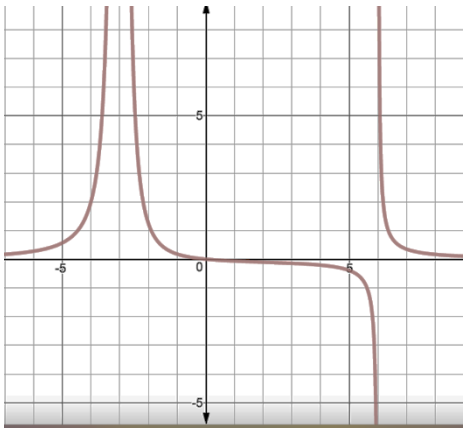


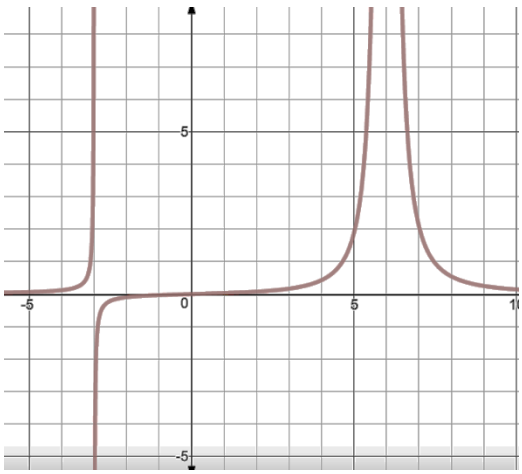


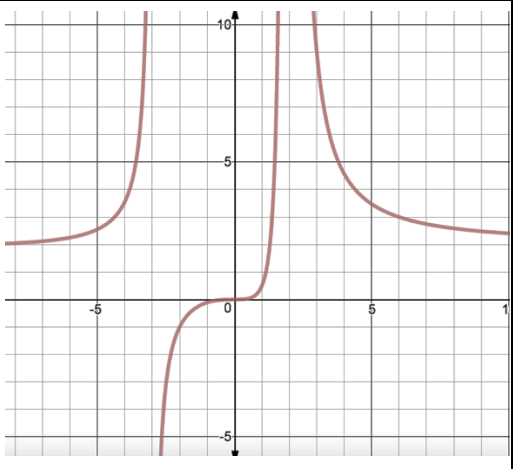


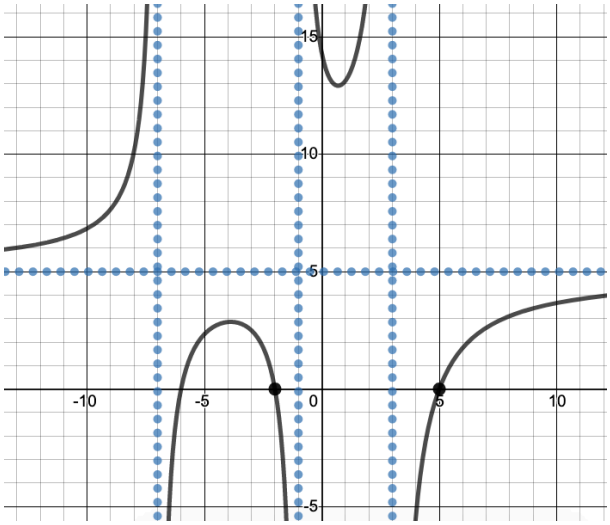


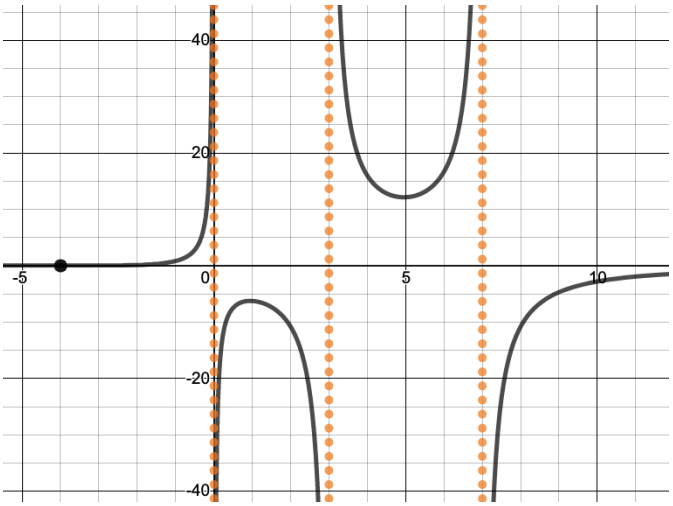












Write an equation of a rational function with the following: ▪ vertical asymptote(s) at x = 9 and x = -3 ▪ horizontal asymptote at y=4 ▪ x-intercept at the point (-7,0)	Write an equation of a rational function with the following: ▪ vertical asymptote(s) at x = -5 and x = 4 ▪ horizontal asymptote at y=7 ▪ x-intercept at the point (0,0)
Write an equation of a rational function with the following: ▪ vertical asymptote(s) at x = 0 and x = -4 ▪ horizontal asymptote at y=-7 ▪ x-intercept(s) at the points (5,0) and (-8,0)	Write an equation of a rational function with the following: ▪ vertical asymptote(s) at x = -102 and x = -260 ▪ horizontal asymptote at y=75 ▪ x-intercept(s) at the points $\left(\frac{5}{7}, 0\right)$ and $\left(-\frac{2}{3}, 0\right)$