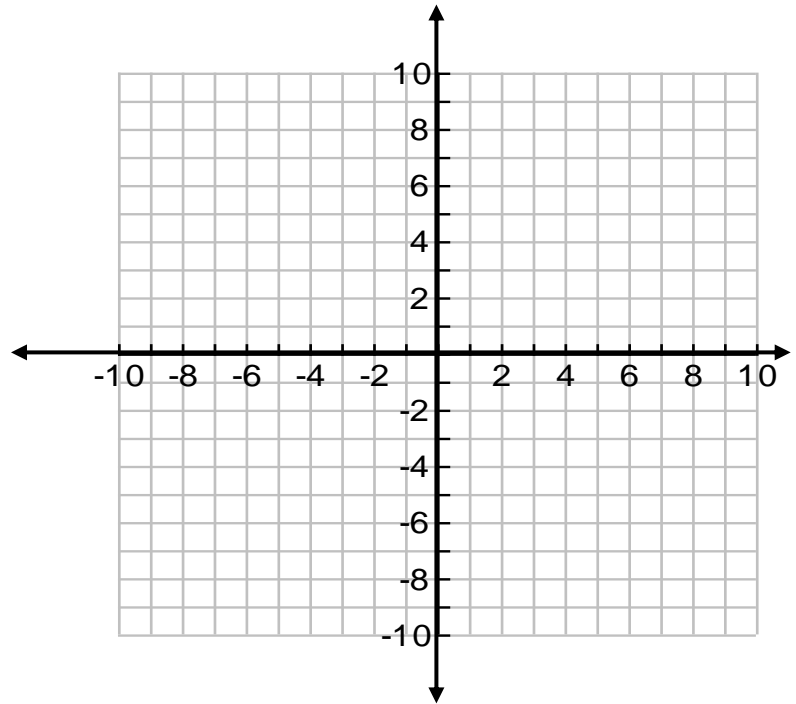


Graphing system of equations with rational functions

Example: $f(x) = \begin{cases} x+1 \\ \frac{1}{x-2} \end{cases}$

First graph $f(x) = x+1$

Then graph $\frac{1}{x-2}$



Find the intersection point

Find the intersection point without graphing.

Ex. 2: $f(x) = \begin{cases} x+1 \\ \frac{1}{x-2} \end{cases}$

Set the two equations equal to each other and solve for the variable.

$$x+1 = \frac{1}{x-2}$$