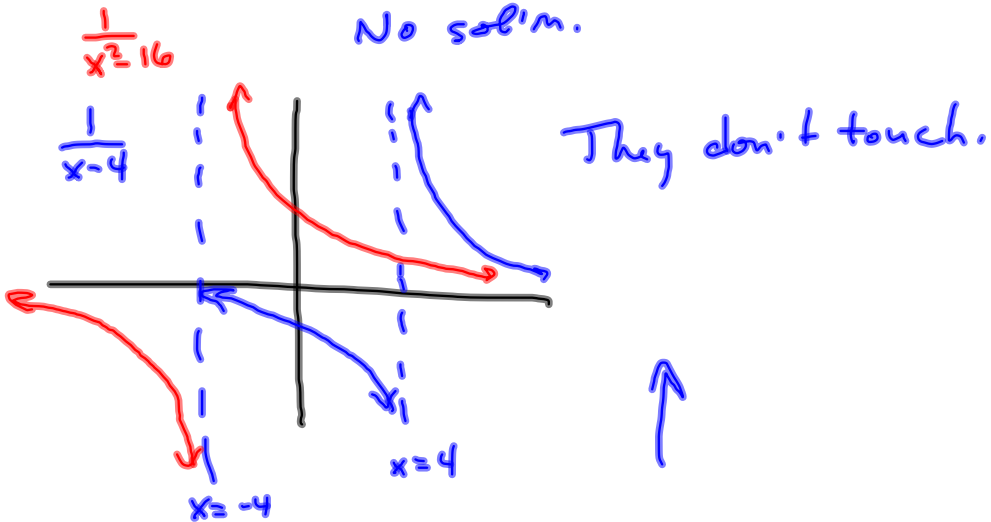


$$\frac{1}{x-4} = \frac{1}{\frac{x^2-16}{(x-4)(x+4)}} \quad x^2-16 = (x-4)(x+4)$$

$$\mathcal{D} = \{x \mid x \neq 4 \ \& \ x \neq -4\}$$

No sol'n.



① I can do the job in 7 hours. U can do it in 4 hours.  
How long working together? James, Brandon, Laurie, Amanda

② Subtract Brauna, Jackie, Guinette, Carly

$$\frac{2x-1}{x^2-3x+2} - \frac{x+1}{x^2-6x+8}$$

③ The current is 3mph. Boat travels 36 miles upstream  
in same time it takes to go 54 miles downstream.  
How fast is boat in still water? Irene, Kellen, Corinne

④ (i) Factor out the GCF  $7x^3 + 14x^2 - 105x$

(ii) Factor the rest of the way

(iii) what is the domain of  $\frac{x+13}{7x^3+14x^2-105x}$  ?  
Lindsey G., Nick, Christopher,  
Andrew.

Write the variation equation for  
 $y$  varies jointly with  $x$  and  $z$   
 and inversely with the square of  $w$ .

$$y = k \frac{xz}{w^2} = \frac{kxz}{w^2}$$

§ 6.7 #39

Max wt

Varies jointly with width and the  
 square of the height and inversely with the  
 length

$$M = \text{Max wt (lb)}$$

$$M = \frac{kwh^2}{l}$$

$$w = \text{width (ft)}$$

$$h = \text{height (ft)}$$

$$l = \text{length (ft)}$$