

I can do the job in 7 hours
 U 4 ..
 How long will it take us working together?
 Edward, Andraya, Beatriz, Ivan

Subtract Toughie!

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

Melissa, Michelle, Lidia

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

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

The current is 3 mph. The boat travels 36 miles upstream in the same amount of time it takes to go 54 miles downstream. How fast is the boat in still water?

$x =$ speed of boat in still water (in mph)

	up	down	$D = rt$
D	36	54	$r = \frac{D}{t}$
r	$x - 3$	$x + 3$	$t = \frac{D}{r} = \boxed{\frac{36}{x-3} = \frac{54}{x+3}}$
t	t	t	

Factor out the GCF: $7x^3 + 14x^2 - 105x$

$$7x(x^2 + 2x - 15)$$

$$x = (x - 0)$$

Factor the rest of the way,

$$= 7x(x+5)(x-3)$$

What's the domain of

$$\frac{x+13}{7x^3+14x^2-105x}$$

$$\{x \mid x \neq -5 \ \& \ x \neq 0 \ \& \ x \neq 3\}$$

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$$\S 6.7 \quad M = \frac{K w h^2}{l}$$

M = Max wt. the beam can support

w = width

h = height

l = length