

Unit 7: Rational Expressions & Equations***7.4 Rational Equations***

Recall:

Solve $\frac{2}{3}x - 1 = \frac{5}{2}$

Use same technique for rational equations.

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ex. Solve (determine the roots/zeros).

a) $\frac{2}{x^2-4} + \frac{10}{6x+12} = \frac{1}{x-2}$

b) $\frac{4k-1}{k+2} - \frac{k+1}{k-2} = \frac{k^2-4k+24}{k^2-4}$

ex. Two friends share a paper route. Sheena can deliver the papers in 40 minutes. Jeff can cover the same route in 50 minutes. How long (nearest minute) does the route take if they work together?

	Time to deliver papers (min)	Fraction of work done in 1 min	Fraction of work done in t minutes
Sheena			
Jeff			
Together			

ex. A sled dog race runs non-stop from The Pas to Flin Flon and back, a distance of 70 km each way. Bad weather caused the winner's average speed to decrease by 6 km/h on the return trip. If the total time for the trip was 8.5 hours. What was the winning team's average speed on the way to Flin Flon?

	Distance (km)	Rate (km/h)	Time (h)
The Pas to Flin Flon			
Flin Flon to The Pas			



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