

Download this PDF to your computer and go to

www.livescribe.com/player

On iOS, open the PDF in Livescribe+.

8/29/18: Intermediate Algebra

- Announcement

- Diagnostic Test

- Lab Orientation

09.05.2018 11:30a MW Int. Alg. Sections 2/5/18, 7/31/18, (All) 14m 16s

8/29/18: Intermediate Algebra

- Announcement
- Diagnostic Test
- Lab Orientation

9/5 Intermediate Algebra

- Recognize Identities and No-Solution equations

- Announcements

- Collection

- 2.1: Linear Equations in one Variable

Ex: $\frac{n-13}{4} + \frac{n+4}{5} = \frac{7}{10}$

LC = 20 $\rightarrow (\frac{n-13}{4} + \frac{n+4}{5} = \frac{7}{10}) \cdot 20 \rightarrow 5(n-13) + 4(n+4) = 14$

Check: $\frac{7-13}{4} + \frac{7+4}{5} = \frac{7}{10}$
 $20 \cdot (\frac{-6}{4} + \frac{11}{5} = \frac{7}{10})$
 $-30 + 44 = 14$
 $14 = 14 \checkmark$
 $n = 7$

$5(n-13) + 4(n+4) = 14$
 $5n - 65 + 4n + 16 = 14$
 $9n - 49 = 14$
 $\frac{9n - 49}{+49 \quad +49}$
 $9n = 63$
 $\frac{9n}{9} = \frac{63}{9}$
 $n = 7$

Ex: $7(x-2) + x = 8(x-2) + 2$
 $7x - 14 + x = 8x - 16 + 2$
 $8x - 14 = 8x - 14$
 \uparrow ident. cal
 \uparrow ident. + 1
 All real numbers

Ex: $2(x+6) + 9 = 2x + 4$
 $2x + 12 + 9 = 2x + 4$
 $2x + 21 = 2x + 4$
 no solution

$2x + 21 = 2x + 4$
 $\frac{-2x \quad -2x}{21 = 4}$
 false
 no solution

9/5 Continued
- 2.2: Intro to problem Solving