

EXTRA PRACTICE — Exercises

Copyright © 2003 by Videotext *Interactive*

Unit VI – Second Degree Relations and Higher - Algebraic Fractions Part B – Solving Open Sentences

Lesson 1 – Equations - Arithmetic Case

Solve each of the following equations containing fractional expressions.

$$1. \frac{2x-3}{4} + 2 = \frac{2x+1}{3}$$

$$2. \frac{x}{10} + \frac{x}{6} + \frac{x}{15} = 1$$

$$3. 8 - \frac{2-5x}{4} = \frac{4x+9}{3}$$

$$4. \frac{3x-2}{2} + \frac{x-4}{3} = \frac{1}{4}$$

$$5. \frac{3a}{4} - \frac{2a-1}{2} = \frac{a-7}{6}$$

$$6. \frac{2a-3}{7} - \frac{a}{2} = \frac{a+3}{14}$$

$$7. \frac{4a+3}{3} = \frac{2a+5}{4}$$

$$8. \frac{2p-1}{3} - \frac{4p+5}{8} = \frac{-19}{24}$$

$$9. \frac{2x-3}{5} + \frac{x-8}{2} = \frac{-1}{10}$$

$$10. \frac{3x+1}{4} - \frac{x+5}{5} = -2$$

EXTRA PRACTICE — Answer Key

Copyright © 2003 by Videotext *Interactive*

Unit VI – Second Degree Relations and Higher - Algebraic Fractions Part B – Solving Open Sentences

Lesson 1 – Equations - Arithmetic Case

Solve each of the following equations containing fractional expressions.

1. $\frac{11}{2} = x$

2. $x = 3$

3. $54 = x$

4. $x = \frac{31}{22}$

5. $4 = a$

6. $\frac{-9}{4} = a$

7. $a = \frac{3}{10}$

8. $p = 1$

9. $x = 5$

10. $x = \frac{-25}{11}$