Introductory Math book Pages 22-24

Solve for x and show your work.

1. 9 + 5x = 4x + 18 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

2. 6 + 5x = 2x + 12 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

3. 1 + 2x = x + 9 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

4. 2 + 7x = x + 62 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

5. 10 + 3x = 7x + 10 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

6. 8 + 7x = 5x + 24 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

7. 4 + 5x = 4x + 14 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

8. 1 + x = 2x + 1 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

9. 4 + 3x = 4x + 1 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

10. 8 + 7x = 5x + 30 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

11. 10 + x = 3x + 2 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

12. 2 + 3x = 2x + 9 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

13. 4 + 4x = 2x + 10 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

14. 6 + 2x = 5x + 3 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

15. 10 + 3x = 4x + 5 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

16. 9 + 3x = x + 17 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

17. 18 + x = 7x + 0 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

18. 16 + 2x = 4x + 4 ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

19. 10 + 7x = 14 + 3x ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient

20. 2 + 3x = 0 + 4x ⎕Distribute, if needed

⎕Combine like terms on the same side of the variable (do

 not cross the = sign)

⎕Move the variables to one side by doing the inverse

 Operation (move the lower variable)

⎕Move the constant to the other side of the equation by

 doing the inverse operation

⎕Divide by the coefficient