Balancing Basic Equations
Addition and Subtraction

Find the value of \( x \). Show your work.

a. \[ 13 + 7 = 32 - x \]
b. \[ 27 + x = 26 + 15 \]

c. \[ 38 - 14 = 44 - x \]
d. \[ x + 19 = 29 - 4 \]

e. \[ 100 - x = 67 + 23 \]
f. \[ 33 + 77 = x - 20 \]

g. \[ 18 + x = 52 - 8 \]
h. \[ 73 - 17 = x + 9 \]

i. \[ 120 - 70 = 89 - x \]

\[ x + 25 = 80 - 5 \]

★ Challenge:

The sum of 15 and \( x \) is equal to the difference between 19 and 45. What is the value of \( x \)?
Find the value of x. Show your work.

a. \[13 + 7 = 32 - x\]  
   \[x = 12\]

b. \[27 + x = 26 + 15\]  
   \[x = 14\]

c. \[38 - 14 = 44 - x\]  
   \[x = 20\]

d. \[x + 19 = 29 - 4\]  
   \[x = 6\]

Challenge:
The sum of 15 and x is equal to the difference between 19 and 45. What is the value of x?  
\[x = 11\]

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