

Solve the equation $7(4x + 3) - 6(7x - 2) = 7(x - 4) - 6(8x - 7) + 21x$.

Question:

- A. -10.25
- B. 15.15
- C. 1.85
- D. -3.17

Answer:

$$\begin{aligned}7(4x+3) - 6(7x-2) &= 7(x-4) - 6(8x-7) + 21x \\ \Rightarrow 28x + 21 - 42x + 12 &= 7x - 28 - 48x + 42 + 21x \\ \Rightarrow 28x - 42x - 7x + 48x - 21x &= -28 + 42 - 21 - 12 \\ \Rightarrow 6x &= -19 \\ \Rightarrow x &= -3.166 \\ x &= -3.17 \quad \text{Option D [Ans]}$$

