

During the first stage of the division process, when you should have subtracted $-5x - (5x)$, you may have added $-5x$ and $5x$. This would have given you $0x - 9$ left over for the next stage, when you should have had $-10x - 9$. Make sure that you distribute the minus sign when you get to the steps involving subtraction. The correct answer

is: $x - 10 + \frac{41}{x + 5}$