Write $1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1 + \cfrac{1}{1}}}}}}}}}}}}}}}}}}}}}$ as a fraction in lowest terms

Write $\left(\dfrac{1+\sqrt{5}}{2}\right)^{21}$ as fraction $+$ fraction $\sqrt{5}$

Plug your answer to the first worksheet into the formula

$$x - \left(1 + \frac{1}{x}\right)$$