C)
$$\frac{A}{\chi^{2}-4} = \frac{A}{x+2} + \frac{B}{x-2} = \frac{(A+B)x+2(B-A)}{\chi^{2}-4} \Rightarrow$$

 $A+B=0, 2(B-A)=A \Rightarrow B=\frac{1}{2}+A \Rightarrow A+\frac{1}{2}+A=0$
 $\Rightarrow A=-\frac{1}{4}, B=\frac{1}{4} \Rightarrow \int \frac{1}{\sqrt{2}+4}dx =$
 $-\frac{1}{4}(\frac{1}{\sqrt{2}}dx+\frac{1}{4}(\frac{1}{\sqrt{2}}dx)=-\frac{1}{4}(\frac{1}{\sqrt{2}}dx)=$

$$\frac{3\times+2}{x^{2}-\Lambda0\times+25} = \frac{3\times+2}{(\times-5)^{2}} = \frac{A}{(\times-5)^{2}} + \frac{B}{(\times-5)^{2}} = \frac{A\times-5A+B}{(\times-5)^{2}} = A=3, -5A+B=2 \Rightarrow B=\Lambda7$$

$$\Rightarrow \left(\frac{3\times+2}{(\times-5)^{2}}\right) = A=3, -5A+B=2 \Rightarrow B=\Lambda7$$