$$\frac{10.08.2018v/3agaza7}{2} \begin{cases} l_{n}(x^{2}+4)dx = \begin{cases} l_{n}(x^{2}+4)dx = \\ l_{n}(x^{2}+4)dx = \end{cases} \begin{cases} f_{g}' = f_{g} - \int f'g \\ f = l_{n}(x^{2}+4) \Rightarrow f' = \frac{1}{x^{2}+4} \\ g' = 1 \Rightarrow g = x + \frac{1}{x^{2}+4} \end{cases}$$

$$= l_{n}(x^{2}+4) \cdot x \begin{vmatrix} 2 \\ 0 \end{vmatrix} - \int \frac{2x}{x^{2}+4} \cdot x dx = 2 l_{n}(8) - (4-\pi) = 2 l_{n}(8) + \pi - 4 \\ (= l_{n}(64) + \pi - 4) \end{cases}$$

$$A = \ln(x^2+4) \times / 2 = 2\ln(8) - 0.\ln(4) = 2\ln(8)$$

$$B = \int \frac{2x^{2}}{x^{2}+4} dx = 2 \int \frac{x^{2}}{x^{2}+4} dx = 2 \int \frac{x^{2}+4-4}{x^{2}+4} dx = 2 \int$$

$$=4-4 \arctan(u) \Big|_{0}^{1}=4-4 \arctan(\frac{x}{z}) \Big|_{0}^{2}=4-4(\arctan(1)-\arctan(0)).$$

$$=4-4(\frac{\pi}{u}-0)=4-\pi$$