$\boxed{21}$ Найти производную:

$$\left(\ln\left(\sin^3(x^2+2x+1)+1\right)\right)' =$$

$$= \frac{1}{\sin^3(x^2+2x+1)+1}\left(\sin^3(x^2+2x+1)+1\right)' =$$

$$= \frac{1}{\sin^3(x^2+2x+1)+1}\left(\left(\sin^3(x^2+2x+1)\right)' + (1)'\right) =$$

$$= \frac{1}{\sin^3(x^2+2x+1)+1}\left(3\sin^2(x^2+2x+1)\left(\sin(x^2+2x+1)\right)' + 0\right) =$$

$$= \frac{1}{\sin^3(x^2+2x+1)+1}\, 3\sin^2(x^2+2x+1)\cos(x^2+2x+1)\,(x^2+2x+1)' =$$

$$= \frac{3\sin^2(x^2+2x+1)\cos(x^2+2x+1)}{\sin^3(x^2+2x+1)+1}\left((x^2)' + (2x)' + (1)'\right) =$$

$$= \frac{3\sin^2(x^2+2x+1)\cos(x^2+2x+1)}{\sin^3(x^2+2x+1)+1}(2x+2+0) =$$

$$= \frac{3\sin^2(x^2+2x+1)\cos(x^2+2x+1)(2x+2)}{\sin^3(x^2+2x+1)+1} =$$

$$= \frac{3\cdot 2(x+1)\sin^2(x^2+2x+1)\cos(x^2+2x+1)}{\sin^3(x^2+2x+1)+1} =$$

$$= \frac{6(x+1)\sin^2(x^2+2x+1)\cos(x^2+2x+1)}{\sin^3(x^2+2x+1)+1}$$

Ответ:

$$\boxed{\left(\ln\left(\sin^3(x^2+2x+1)+1\right)\right)' = \frac{6(x+1)\sin^2(x^2+2x+1)\cos(x^2+2x+1)}{\sin^3(x^2+2x+1)+1}}$$