

F<sub>10</sub>

1, 1, 2, 3, 5, 8, 13, 21, 34, 55...

 $\frac{21}{13} = 1.615384...$ 

złota liczba, liczba phi,  $\varphi$ 



$$F_n = \frac{\varphi^n - \psi^n}{\sqrt{5}}$$

$$\varphi = \frac{1 + \sqrt{5}}{2} \approx 1.61803 \dots$$

$$\psi = \frac{1 - \sqrt{5}}{2} = 1 - \varphi \approx -0.61803 \dots$$



$$F_n = \frac{\varphi^n - (1 - \varphi)^n}{\sqrt{5}}$$

