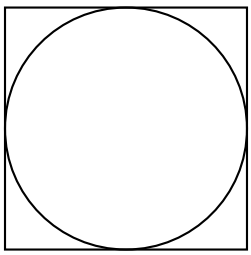
14/6/2025

1

$S = 1 + 2 + \cdots + 100$. :
$S = \dfrac{n(n+1)}{2}$.
, $S = \frac{100 \cdot 101}{2} = 5050$.

2

4. . :
: $A = \pi r^2$, $r = \frac{4}{2} = 2$.
, $A = \pi \cdot 2^2 = 4\pi$.



3

$2x + 3 = 13$. :
$2x + 3 = 13 \implies 2x = 10 \implies x = 5$.

5

$\lim\limits_{x \to 2} \dfrac{x^2 - 4}{x - 2}$. :
$x^2 - 4 = (x - 2)(x + 2)$.
, $\lim_{x \to 2} \frac{(x-2)(x+2)}{x-2} = \lim_{x \to 20}(x - 2) = 4$.