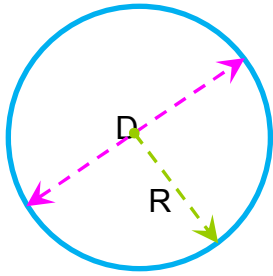


cu noi totul pare mai usor

POLIGOANE REGULATE INCRISE IN CERC

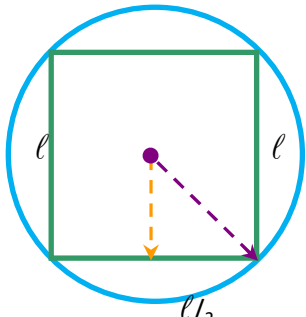
CERC



R raza cercului
 D diametrul cercului
 L ... lungimea cercului
 A aria cercului

$\pi = 3,14$
 $D = 2 \times R$
 $L = 2 \pi \times R$
 $A = \pi \times R^2$

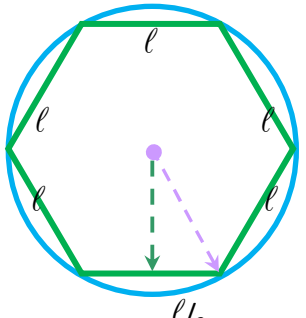
1. Patratul inscris in cerc



l- latura patratului
 R- raza cercului
 ap-apotema

$\sqrt{2} = 1,41$
 $l = R \times \sqrt{2}$
 $ap = \frac{l}{2}$
 $P = l \times 4$
 $S = l^2$

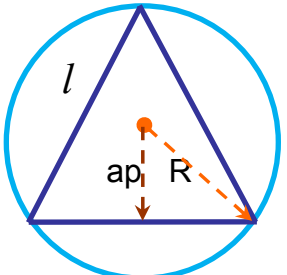
2. Hexagonul inscris in cerc



l latura hexagonului
 R raza
 ap ... apotema
 P perimetrul
 S aria

$\sqrt{3} = 1,73$
 $l = R$
 $ap = \frac{l \times \sqrt{3}}{2}$
 $P = l \times 6$
 $S = \frac{3 \times l^2 \times \sqrt{3}}{2}$

3. Triunghiul echilateral inscris in cerc



l latura triunghiului
 r raza
 ap ... apotema
 h inaltimea triunghiului
 P perimetrul
 S aria

$\sqrt{3} = 1,73$
 $l = R \times \sqrt{3}$
 $ap = \frac{l \times \sqrt{3}}{6}$ o $ap = \frac{R}{2}$
 $h = \frac{l \times \sqrt{3}}{2}$ o $h = 3 \times ap$
 $P = l \times 3$
 $S = \frac{l^2 \times \sqrt{3}}{4}$