

PLOŠČINA KROGA - rešitve iz UČBENIKA

UPORABIŠ FORMULE

$d = 2 \cdot r$   
 $r = d : 2$

$p = \pi r^2 \Rightarrow r = \sqrt{\frac{p}{\pi}}$

$\pi \doteq 3,14$   
 $\pi \doteq \frac{22}{7}$

1a.) KROG  
 $r = 45 \text{ mm}$   
 $p =$

$p = \pi r^2$   
 $p = 3,14 \cdot 45^2$   
 $p = 3,14 \cdot 2025$   
 $p = 6358,5 \text{ mm}^2$

$$\begin{array}{r} 45 \cdot 45 \\ + 180 \\ \hline 2025 \\ 3,14 \cdot 2025 \\ \hline 6358,50 \end{array}$$

2.)  $r = 1\frac{2}{5} \text{ cm} \rightarrow$  ker je ulomek, tudi  $\pi$  damo v ulomek

$p = 6\frac{4}{25} \text{ cm}^2$

$p = \pi r^2$   
 $p = \frac{22 \cdot 7 \cdot 7}{7 \cdot 5 \cdot 5} = \frac{154}{25} = 6\frac{4}{25} \text{ cm}^2$   
 $154 : 25 = 6$   
 $4 \text{ ost}$

3.) a)  $r = 40 \text{ cm}$   
 $p =$

$p = \pi r^2$   
 $p = \pi \cdot 40^2$   
 $p = \pi \cdot 1600$   
 $p = 1600\pi \text{ cm}^2$

b)  $d = 1,5 \text{ dm}$   
 $r = d : 2 = 1,5 : 2 = 0,75$   
 $p = \pi r^2$   
 $p = \pi \cdot 0,75^2$   
 $p = 0,5625\pi \text{ dm}^2$

$$\begin{array}{r} 0,75 \cdot 0,75 \\ + 525 \\ \hline 0,5625 \end{array}$$

8.) a)  $r = 8 \text{ cm}$   
 $d = 2 \cdot r = 16 \text{ cm}$   
 $\sigma = 50,24 \text{ cm}$   
 $p = 200,96 \text{ cm}^2$

$\sigma = 2\pi r$   
 $\sigma = 2\pi \cdot 8$   
 $\sigma = 16\pi \text{ cm}$   
 $\sigma = 16 \cdot 3,14$   
 $\sigma = 50,24 \text{ cm}$

$$\begin{array}{r} 3,14 \cdot 16 \\ 314 \\ + 1884 \\ \hline 5024 \end{array}$$

$p = \pi r^2$   
 $p = \pi \cdot 8^2$   
 $p = 64\pi \text{ cm}^2$   
 $p = 64 \cdot 3,14$   
 $p = 200,96 \text{ cm}^2$

$$\begin{array}{r} 314 \cdot 64 \\ + 1884 \\ \hline 20096 \end{array}$$

b)  $\sigma = 75,36 \text{ mm}$   
 $r = 12 \text{ mm}$   
 $d = 2 \cdot r = 24 \text{ mm}$   
 $p =$

$\sigma = 2\pi r$   
 $\sigma = \frac{\sigma}{2\pi} = \frac{75,36}{2 \cdot 3,14}$   
 $r = \frac{75,36}{6,28} = 12 \text{ mm}$

$p = \pi r^2$   
 $p = \pi \cdot 12^2$   
 $p = 144\pi$   
 $p = 144 \cdot 3,14$   
 $p = 452,16 \text{ cm}^2$

$$\begin{array}{r} 144 \cdot 3,14 \\ 432 \\ + 144 \\ \hline 452,16 \end{array}$$

$75,36 : 6,28 = 12$   
 $75,36 : 6,28 = 12$

c)  $d = 15 \text{ cm}$   
 $r = d : 2 = 7,5 \text{ cm}$   
 $\sigma = d \cdot \pi = 15 \cdot 3,14 = 47,1 \text{ cm}$   
 $p = \pi r^2 = 3,14 \cdot 7,5^2 = 3,14 \cdot 56,25 = 176,625 \text{ cm}^2$

d)  $p = 1256 \text{ cm}^2$   
 $r = 20 \text{ cm}$   
 $d = 2 \cdot r = 40 \text{ cm}$   
 $\sigma = d \cdot \pi = 40 \cdot 3,14 = 125,6 \text{ cm}$

$p = \pi r^2$   
 $r = \sqrt{\frac{p}{\pi}}$   
 $r = \sqrt{\frac{1256}{3,14}}$   
 $r = \sqrt{400} = 20 \text{ cm}$

$1256 : 3,14 = 400$   
 $125600 : 314 = 400$