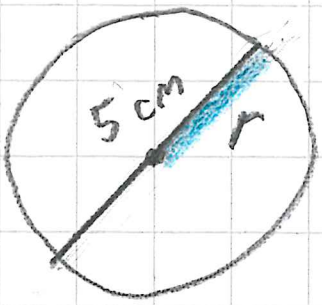
s. 207 **946**

$$p = 2\pi r$$

a)



halkaisija $d = 5\,cm$

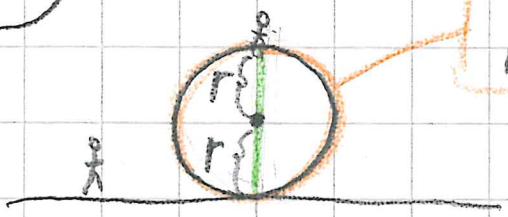
säde $r = \frac{5\,cm}{2} = 2{,}5\,cm$

$$p = 2 \cdot 3{,}14 \cdot 2{,}5\,cm$$
$$= 15{,}7\,cm$$
$$\approx 16\,cm$$

b) $r = \frac{12\,m}{2} = 6\,m$

$$p = 2 \cdot 3{,}14 \cdot 6\,m = 37{,}68\,m$$
$$\approx 38\,m$$

950 Helsinki



$p = 106{,}8\,m$

kehän pituus

$$p = 2\pi r$$

$$2 \cdot 3{,}14 \cdot r = 106{,}8$$

$$\frac{6{,}28\,r}{6{,}28} = \frac{106{,}8}{6{,}28} \quad |:6{,}28$$

$$r = 17{,}006\ldots\,m$$

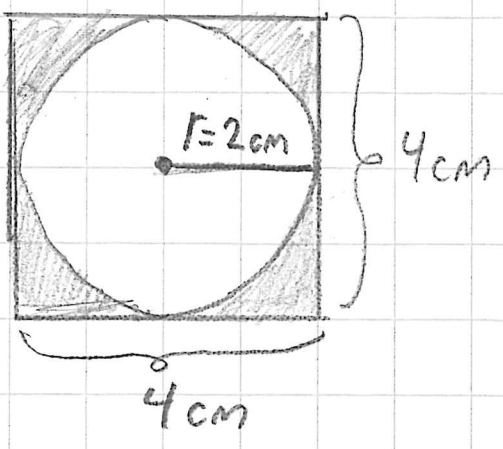
$$r \approx 17\,m$$

V: Korkeus on
$17\,m \cdot 2 = 34\,m$

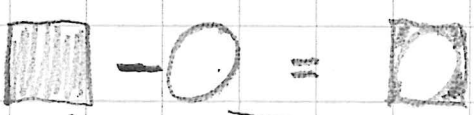
S. 210

968

a)



$A = \pi r^2$

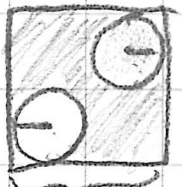


$A = 4\,cm \cdot 4\,cm - 3{,}14 \cdot 2\,cm \cdot 2\,cm$

$= 16\,cm^2 - 12{,}56\,cm^2$

$= 3{,}44\,cm^2$

b)



$r = 1\,cm$

$A = 3{,}14 \cdot 1\,cm \cdot 1\,cm$

$= 3{,}14\,cm^2$

$A = 4\,cm \cdot 4\,cm - (3{,}14\,cm^2 + 3{,}14\,cm^2)$

$= 16\,cm^2 - 6{,}28\,cm^2$

$= 9{,}72\,cm^2$

946

C

D

S. 207

967

S. 210