PREVERJANJE 9. razred. 8. teden

nal 3 STOŽEC

$d = 6\,cm$

$N = 15\,cm$

$r = 3\,cm$

$V =$

$V = \frac{O \cdot v}{3}$

$V = \frac{\pi r^2 \cdot v}{3}$

$V = \frac{\pi \cdot 9 \cdot 15 \cdot 5}{3 \cdot 1}$

$V = 45\pi\,cm^3$

$V = 141{,}3\,cm^3$

$3{,}14 \cdot 45$

1256

1570

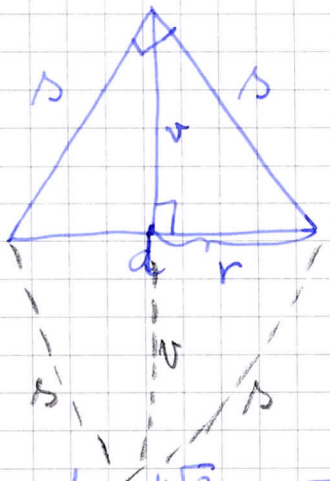
$141{,}30$

nal 4 ZN 2/ str 172/ nal 4

STOŽEC

enakokraki pravokotni trikotnik

$p = 8\,dm^2$



- dopolnemo v kvadrat

d = diagonala kvadrata (ta kvadrat ima stranico s)

$d = a\sqrt{2}$

$d = s\sqrt{2}$

$d = 4\sqrt{2}$

Cel kvadrat ima ploščino $16\,dm^2$

$p = a^2$

$16 = a^2$

$a = 4\,dm$, kar pomeni

$s = 4\,dm$

$r = \frac{d}{2} = \frac{4\sqrt{2}}{2} = 2\sqrt{2}\,dm$

$N = \frac{d}{2} = \frac{4\sqrt{2}}{2} = 2\sqrt{2}\,dm$

} podatki za stožec

$V = \frac{O \cdot v}{3}$

$V = \frac{\pi r^2 \cdot v}{3}$

$V = \frac{\pi \cdot (2\sqrt{2})^2 \cdot 2\sqrt{2}}{3}$

$V = \frac{\pi \cdot 4 \cdot 2 \cdot 2\sqrt{2}}{3} = \frac{16\sqrt{2}\,\pi}{3}\,dm^3$

$P = O + pl$

$P = \pi r^2 + \pi r s$

$P = \pi r (r + s)$

$P = \pi \cdot 2\sqrt{2}\,(2\sqrt{2} + 4)$

$P = 4 \cdot 2\pi + 4\pi \cdot 2\sqrt{2}$

$P = 8\pi + 8\pi\sqrt{2}$

$P = 8\pi(1 + \sqrt{2})\,dm^2$

1. naloga
ZN 2/ str 164 PREVERJANJE

nal 5

VALJ
$r = 3m$
$v = 5m$

$V_1 =$

$V_1 = O \cdot v$
$V_1 = \pi r^2 \cdot v$
$V_1 = \pi \cdot 9 \cdot 5$
$V_1 = 45\pi\ m^3$

STOŽEC
$r = 3m$
$v = 4m$

V_2

$V_2 = \frac{O \cdot v}{3}$
$V_2 = \frac{\pi r^2 \cdot v}{3}$
$V_2 = \frac{\pi \cdot 9 \cdot 4 \cdot 3}{3 \cdot 1}$
$V_2 = 12\pi\ m^3$

$s^2 = v^2 + r^2$
$s^2 = 25 - 9$
$s^2 = 16$
$s = 4m$

$V = V_1 + V_2$
$V = 45\pi + 12\pi$
$V = 57\pi$
$V \doteq 57 \cdot 3{,}14$
$V \doteq 179\ m^3$

57 · 3,14
171
57
228
178,98

2. naloga
VALJ
$d = 40cm$
$v = 50cm$
$r = 20cm$
a) $V = 62{,}8\ l$
b) P - (brez pokrova)
c) $O = 1256\ cm^2$

a)
$V = O \cdot v$
$V = \pi r^2 \cdot v$
$V = \pi \cdot 20^2 \cdot 50$
$V = 400 \cdot 50 \cdot \pi$
$V = 20000\pi$
$V \doteq 20000 \cdot 3{,}14$
$V \doteq 62800\ cm^3 \doteq 62{,}8\ dm^3 = 62{,}8\ l$

3,14 · 20000
6280000

ker je brez pokrova

$P = O + pl$
$P = \pi r^2 + pl$
$P = \pi r^2 + 2\pi r v$
$P = \pi r (r + 2v)$
$P = \pi \cdot 20 (20 + 2 \cdot 50)$
$P = 20\pi \cdot 120$
$P = 2400\pi \doteq 7536\ cm^2$

2400 · 3,14
7200
2400
9600
7536,00

c)
$O = \pi r^2$
$O = \pi \cdot 20^2$
$O = 400\pi$
$O \doteq 400 \cdot 3{,}14$
$O = 1256\ cm^2$

3,14 · 400
1256,00