

REŠITVE, Učbenik, str. 170, 171 (18.3.2020)

7. $d = 30 \text{ cm}$
 $r = 15 \text{ m}$

$\nu = ?$
 $\nu = \pi r^2$

$\nu = 3,14 \cdot 15^2$

$\nu = 3,14 \cdot 225$

$\nu = 706,5 \text{ m}^2$

$706,5 \cdot 5 = 3532,5 \text{ dag}$
 $= 35,325 \text{ kg}$

Potrebujemo 35,325 kg remena.

8.

	r	d	σ	ν
a)	8 cm	16 cm	50,24 cm	200,96 cm ²
b)	12 m	24 m	75,36 m	452,16 m ²
c)	7,5 mm	15 mm	47,1 mm	176,625 mm ²
d)	20 dm	40 dm	125,6 dm	1256 dm ²

d) $\nu = 1256 \text{ dm}^2$
 $\nu = \pi r^2$

$1256 = 3,14 \cdot r^2$

$r^2 = 1256 : 3,14$

$r^2 = 400$

$r = \sqrt{400} = 20 \text{ dm}$

a) $r = 8 \text{ cm}$

$\sigma = 2\pi r$

$\sigma = 2 \cdot 3,14 \cdot 8$

$\sigma = 50,24 \text{ cm}$

$\nu = \pi r^2$

$\nu = 3,14 \cdot 8^2$

$\nu = 3,14 \cdot 64$

$\nu = 200,96 \text{ cm}^2$

b) $\sigma = 75,36 \text{ m}$

$\sigma = \pi \cdot d$

$75,36 = 3,14 \cdot d$

$d = 75,36 : 3,14$

$d = 24 \text{ m}$

$r = 12 \text{ m}$

$\nu = \pi \cdot r^2$

$\nu = 3,14 \cdot 12^2$

$\nu = 3,14 \cdot 144$

$\nu = 452,16 \text{ m}^2$

c) $d = 15 \text{ mm}$

$r = 7,5 \text{ mm}$

$\sigma = \pi \cdot d$

$\sigma = 3,14 \cdot 15$

$\sigma = 47,1 \text{ mm}$

$\nu = \pi r^2$

$\nu = 3,14 \cdot 7,5^2$

$\nu = 3,14 \cdot 56,25$

$\nu = 176,625 \text{ mm}^2$

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$r = \sqrt{\nu : \pi}$

$r = \sqrt{1256 : 3,14}$

$r = \sqrt{400}$

$r = 20 \text{ dm}$

$d = 40 \text{ dm}$

$\sigma = \pi \cdot d$

$\sigma = 3,14 \cdot 40$

$\sigma = 125,6 \text{ dm}$