

Str. 48/úloha 245 !

$$m = 900 \text{ kg}$$

$$S_1 = ? \text{ [m}^2\text{]}$$

$$p = 190 \text{ kPa} = 190\,000 \text{ Pa}$$

$$g = 10 \frac{\text{N}}{\text{kg}}$$

$$p = \frac{F}{S}$$

$\Rightarrow$

$$S = \frac{F}{p}$$

$$F = m \cdot g$$

$$F = 900 \cdot 10$$

$$F = 9000 \text{ N}$$

$$S = \frac{9000}{190\,000}$$

$$S = 0,047 \text{ m}^2$$

$$S_1 = \frac{S}{4}$$

$$S_1 = \frac{0,047}{4}$$

$$S_1 = 0,01175 \text{ m}^2$$

$$S_1 = 118 \text{ cm}^2$$

Jedna pneumatika sa dotýka vozovky plochou  $118 \text{ cm}^2$ .