

Str. 48 / úloha 241

$$p = ? \text{ [Pa]}$$

$$m = 85 \text{ kg}$$

$$a = 10 \text{ cm} = 0,1 \text{ m}$$

$$b = 210 \text{ cm} = 2,1 \text{ m}$$

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

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

$$F = m \cdot g$$

$$S_1 = a \cdot b$$

$$p = \frac{850}{0,42}$$

$$F = 85 \cdot 10$$

$$S_1 = 0,1 \cdot 2,1$$

$$F = 850 \text{ N}$$

$$S_1 = 0,21 \text{ m}^2$$

$$p = 2023,8 \text{ Pa}$$

$$S = 2 \cdot S_1$$

$$\underline{\underline{p = 2024 \text{ Pa}}}$$

$$S = 2 \cdot 0,21$$

$$S = 0,42 \text{ m}^2$$

Lyžár pôsobí na sneh tlakom 2024 Pa.