

1)  $X \sim \text{NORMALNA}$      $m_x = 2.5 \text{ kN/m}^2$      $\sigma_x = m_x \sqrt{V} = 2.5 \times 0.04$   
 $\sigma_x = 0.1 \text{ kN/m}^2$

$Y \sim \text{GAMA}$      $m_y = 1.7 \text{ kN/m}^2$      $\sigma_y = 0.5 \text{ kN/m}^2$

a) NEODVISNI  $X, Y$      $Z = X + Y$

$$m_z = m_x + m_y = \underline{\underline{4.2 \text{ kN/m}^2}}$$

$$\sigma_z^2 = \sigma_x^2 + \sigma_y^2 = 0.1^2 + 0.5^2 = \underline{\underline{0.26}}$$

b) ODVISNI  $X, Y$

$$m_z = 4.2 \text{ kN/m}^2$$

$$\sigma_z^2 = \sigma_x^2 + \sigma_y^2 + 2 \rho_{xy} \sigma_x \sigma_y = 0.1^2 + 0.5^2 + 2 \times 0.3 \times 0.1 \times 0.5$$

$$\sigma_z^2 = \underline{\underline{0.29}}$$