

1) $X: 1, 2, 3, 4, 5$

$Y = X + X + X: \underline{\underline{3, 4, 5, \dots, 13, 14, 15}}$ ← ZALOGA VREDNOSTI X

$P\{Y \leq 5\} = P\{Y=3 \cup Y=4 \cup Y=5\} = 0.001 + 0.003 + 0.018 = \underline{\underline{0.022}}$ ← $P\{Y \leq 5\}$

$P\{Y=3\} = P\{X=1 \wedge X=1 \wedge X=1\} = 0.1^3 = \underline{\underline{0.001}}$

$P\{X=4\} = P\{X=1 \wedge X=1 \wedge X=2\} \cdot 3 = 0.1^3 \cdot 3 = \underline{\underline{0.003}}$

$P\{X=5\} = P\{X=1 \wedge X=1 \wedge X=3\} \cdot 3 +$

$P\{X=1 \wedge X=2 \wedge X=2\} \cdot 3 = 0.1^2 \cdot 0.5 \cdot 3 + 0.1^3 \cdot 3 = \underline{\underline{0.018}}$

$E\{Y\} = 3 \cdot E\{X\} = 3 \cdot 3.1 = \underline{\underline{9.3}}$ ← $E\{Y\}$

$E\{X\} = 1 \cdot 0.1 + 2 \cdot 0.1 + 3 \cdot 0.5 + 4 \cdot 0.2 + 5 \cdot 0.1 = \underline{\underline{3.1}}$