

Rješenja zadatka 2.2

Zadatak 1. Napiši prvih pet članova aritmetičkog niza ako je:

- 1) $a_1 = -\frac{1}{2}, d = \frac{3}{4};$
- 2) $a_1 = \frac{4}{5}, d = -0.2;$
- 3) $a_1 = 202, d = -\frac{3}{2};$
- 4) $a_1 = 1\frac{3}{5}, d = 0.125.$

Rješenje.

- 1) $a_1 = -\frac{1}{2}, d = \frac{3}{4};$
 $a_1 = -\frac{1}{2}, a_2 = -\frac{1}{2} + \frac{3}{4} = \frac{1}{4}, a_3 = \frac{1}{4} + \frac{3}{4} = 1,$
 $a_4 = 1 + \frac{3}{4} = \frac{7}{4}, a_5 = \frac{7}{4} + \frac{3}{4} = \frac{5}{2};$
- 2) $a_1 = \frac{4}{5}, d = -0.2 = -\frac{1}{5};$
 $a_1 = \frac{4}{5}, a_2 = \frac{4}{5} - \frac{1}{5} = \frac{3}{5}, a_3 = \frac{3}{5} - \frac{1}{5} = \frac{2}{5},$
 $a_4 = \frac{2}{5} - \frac{1}{5} = \frac{1}{5}, a_5 = \frac{1}{5} - \frac{1}{5} = 0;$
- 3) $a_1 = 202, d = -\frac{3}{2} = -1.5;$
 $a_1 = 202, a_2 = 202 - 1.5 = 200.5, a_3 = 200.5 - 1.5 = 199,$
 $a_4 = 199 - 1.5 = 197.5, a_5 = 197.5 - 1.5 = 196;$
- 4) $a_1 = 1\frac{3}{5} = \frac{8}{5}, d = 0.125 = \frac{1}{8}.$
 $a_1 = \frac{8}{5}, a_2 = \frac{8}{5} + \frac{1}{8} = \frac{69}{40}, a_3 = \frac{69}{40} + \frac{1}{8} = \frac{74}{40} = \frac{37}{20},$
 $a_4 = \frac{37}{20} + \frac{1}{8} = \frac{79}{40}, a_5 = \frac{79}{40} + \frac{1}{8} = \frac{84}{40} = \frac{21}{10};$