7. Analitička geometrija, 2. dio - Rješenja

1. $\dfrac{x-2}{-1} = \dfrac{y+3}{1} = \dfrac{z-1}{1}$
2. $\dfrac{x-2}{-2} = \dfrac{y+\frac{1}{2}}{3} = \dfrac{z-\frac{3}{2}}{7}$
3. $N(3, 0, -4)$
4. $N(-\frac{7}{3}, -\frac{2}{3}, \frac{5}{3})$
5. pravac je zadan ravninama: $\begin{cases} 2x - y + 5z - 5 = 0 \\ 7x + 14y - 24 = 0 \end{cases}$

   kanonska jednadžba pravca: $\dfrac{x-\frac{24}{7}}{-2} = \dfrac{y}{1} = \dfrac{z+\frac{13}{35}}{1}$
6. pravac je zadan ravninama: $\begin{cases} x + 2y - 5z + 3 = 0 \\ 13x - 9y - z - 19 = 0 \end{cases}$

   kanonska jednadžba pravca: $\dfrac{x-\frac{43}{30}}{47} = \dfrac{y-\frac{4}{30}}{64} = \dfrac{z-\frac{25}{30}}{35}$
7. 7
8. $11x - y - 3z + 2 = 0$
9. $\dfrac{\sqrt{21}}{3}$
10. $\dfrac{\sqrt{3}}{3}$
11. $x + 6y + z - 16 = 0$
12. $5x - 3y + 8z + 3 = 0$
13. $P'(1, -5, -3)$
14. $A(3, 0, 3),\ B(-5, -4, -1)$
15. $\Pi \ldots\ 2x - y - z - 1 = 0, \quad d(p_2, \Pi) = \sqrt{6}$

16. $d(M,p) = \sqrt{\frac{117}{29}}$

17. $d = \frac{\sqrt{3}}{5}$

18. $\frac{x-6}{-8} = \frac{y-1}{1} = \frac{z+4}{3}$

19. $2x - y = 0$