

9.4 | 연습문제 정답

01. $x = t + 5, y = t - 3, z = t - 3$

02. $x = y + \frac{16}{7}, z = -\frac{3}{7}$

03. $\frac{x-1}{8} = \frac{y-2}{5} = \frac{z-3}{7}$

04. $2x = y$

05. $x - y + z = 0$

06. $x + y + z = 3$

07. $x = 8t - 15, y = -3t + 6, z = -t$

08. $\frac{38}{3\sqrt{78}}$

09. $\frac{\sqrt{185}}{\sqrt{21}}$

10. $\frac{8}{\sqrt{3}}$

11. $\frac{\sqrt{206}}{\sqrt{6}}$

12. $\frac{\sqrt{65}}{\sqrt{6}}$

13. $\frac{1}{\sqrt{3}}$

14. $x = x_0 - \frac{ax_0 + by_0 + cz_0}{a^2 + b^2 + c^2}a, y = y_0 - \frac{ax_0 + by_0 + cz_0}{a^2 + b^2 + c^2}b,$

$$z = z_0 - \frac{ax_0 + by_0 + cz_0}{a^2 + b^2 + c^2}c$$

15. $(x - x_0)^2 + (y - y_0)^2 + (z - z_0)^2 - (a^2 + b^2 + c^2) = 0$