3 -

$$r: \begin{cases} x = 6t + 3 \\ y = 4t - 4 \\ z = 1 - 4t \end{cases}$$

$\vec{r} = 6\vec{i} + 4\vec{j} - 4\vec{k}$

$S = (6t+3, 4t-4, 1-4t)$

$P = (3, 0, 5)$

Temos $\overrightarrow{PS} = (6t, 4t-4, -4-4t)$

$(6t, 4t-4, -4-4t) \cdot (6, 4, -4) = 0$

$S = (3, -4, -4)$

$68t = 0$

Substituindo t por 0

$t = 0$

$x = 3$

$y = -8$

$z = -13$

$B(3, -8, -13)$