

XVI  $P = (1, 4, 2)$        $\pi: 2x - 1y + 1z - 2 = 0$

$$d(P, \pi) = \frac{|2 \cdot 1 - 1 \cdot 4 + 1 \cdot 2 - 2|}{\sqrt{2^2 + (-1)^2 + 1^2}} = \frac{|2 \cdot 1 - 1 \cdot 4 + 1 \cdot 2 - 2|}{\sqrt{2^2 + (-1)^2 + 1^2}} = \frac{0}{\sqrt{6}} = 0$$