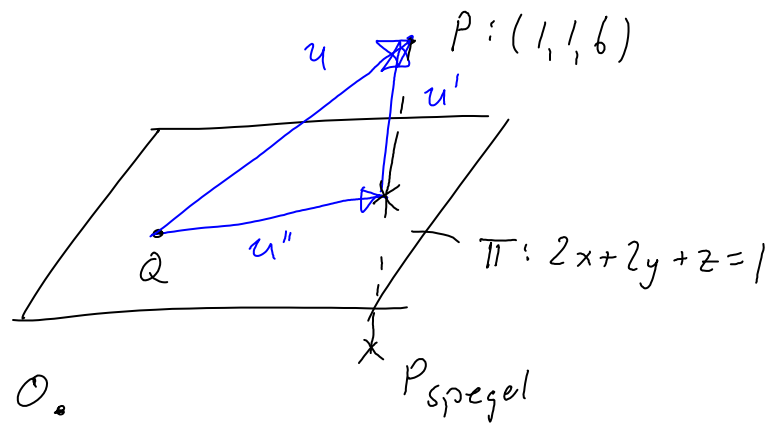


4.33

den 17 oktober 2010
12:05

Obs att origo inte ligger i planet!

Tag godt punkt i planet: Välj $Q = (0, 0, 1)$

Projicera $u = \overline{QP} = (1, 1, 5)$ på $n = (2, 2, 1)$

$$u' = \frac{(1, 1, 5) \cdot (2, 2, 1)}{9} \cdot (2, 2, 1) = (2, 2, 1)$$

$$u'' = -u' + u = -(2, 2, 1) + (1, 1, 5) = (-1, -1, 4)$$

P_{spegel} 's koordinater "ges av" $\overline{OP_{\text{spegel}}}$.

Vi ser att

$$\begin{aligned} \overline{OP_{\text{spegel}}} &= \overline{OP} - 2u' = (1, 1, 6) - 2(2, 2, 1) = \\ &= \underline{\underline{(-3, -3, 4)}} \end{aligned}$$