1. Quickly find the normal vectors for the planes:
   (a) $P_1 = x + 25z = 2015$

   **Solution:**
   \[ n = (1, 0, 25). \]

   (b) $P_2 = 2(z - 3) + 4(y + 2) - x = 4$

   **Solution:** Only look at the coefficients of $x, y$ and $z$ in order.
   \[ n = (-1, 4, 2). \]