c) We need to invert this transformation. We could take the inverse of the final 3x3.
Let's look at the bits instead To return to G from M we TG = TGURGUES where RGM = RMG & TGM = TMG.
Thex matrices are $Tam = \begin{bmatrix} 1 & 0 & -3 \\ 0 & 1 & 1 \\ L 0 & 0 & 1 \end{bmatrix}$ RGM = \[\frac{1}{2} \frac{1}{2} \quad 0 \] The product becomes TGMRGM = 1/2 -3 -3 | 1/2 | 1

The point (3,-2)m becomes rG = 1/2 -3 3 rG = 1/2 1 -2 $= \frac{3}{2} + \frac{3}{3} - \frac{3}{3}$ ⇒ r_G = [-3-3/2] - This looks about night!