$x_1-6=4s+r$

$x_2-9=s-2r$ ·4

$x_3-1=-4s-4r$

<=>

$x_1-6=4s+r$

$x_2-9=s-2r$

$-\frac{1}{3}x_2+\frac{1}{12}x_3+\frac{37}{12}=r$

<=>

$x_1-6=4s+r$

$\frac{1}{3}x_2-\frac{1}{6}x_3-\frac{17}{6}=s$

$-\frac{1}{3}x_2+\frac{1}{12}x_3+\frac{37}{12}=r$