Determine the number of solutions for each system of linear equations without solving the system of equations. Justify your answer.

\[ y = \frac{2}{3}x - 9 \]
\[ y = \frac{2}{3}x + 9 \]
\[ y = \frac{2}{3}x - 9 \]
\[ y = \frac{2}{3}x + 9 = 0 \]

One solution
\[ x = 3 \]
\[ y = 1 \]
\[ 3 \text{ solution} \]

\[ 4x - 5y = 8 \]
\[ 4x - 8y = 5 \]
\[ 4y - 5y = 8 \]
\[ 4y - 5y = 8 \]
\[ 4(1) - 5y = 8 \]
\[ 4 - 5y = 8 \]
\[ -5y = 4 \]
\[ y = \frac{4}{5} \]
\[ 1 \text{ solution} \]

\[ x + y = 6 \]
\[ 2x + 2y = 12 \]
\[ 2x + 2y = 12 \]
\[ 2x + 2y = 12 \]
\[ 0 \]
\[ 0 \text{ solution} \]

\[ y = \frac{4}{3}x + 1 \]
\[ y = \frac{4}{3}x + 1 \]
\[ 4 = \frac{4}{3}x + 1 \]
\[ 4 = \frac{4}{3}x \]
\[ x = \frac{9}{4} \]
\[ \frac{9}{4} \]