Systems of Equations #1

On the graph below show the graph of both of the equations

\[ x - y = 4 \]

\[ x + y = 8 \]
\[ x - y = 4 \Rightarrow \text{Solve for } y \text{ and get } y = x - 4 \hspace{1em} \text{This line has a slope } m = 1 = \frac{1}{1} \]
and a y intercept with coordinates \((0, -4)\)

\[ x + y = 8 \Rightarrow \text{Solve for } y \text{ and get } y = -x + 8 \hspace{1em} \text{This line has a slope } m = 1 = \frac{1}{1} \]
and a y intercept with coordinates \((0, 8)\)

The graphs appear below and the point of intersection is \((6, 2)\).