

Parallel lines

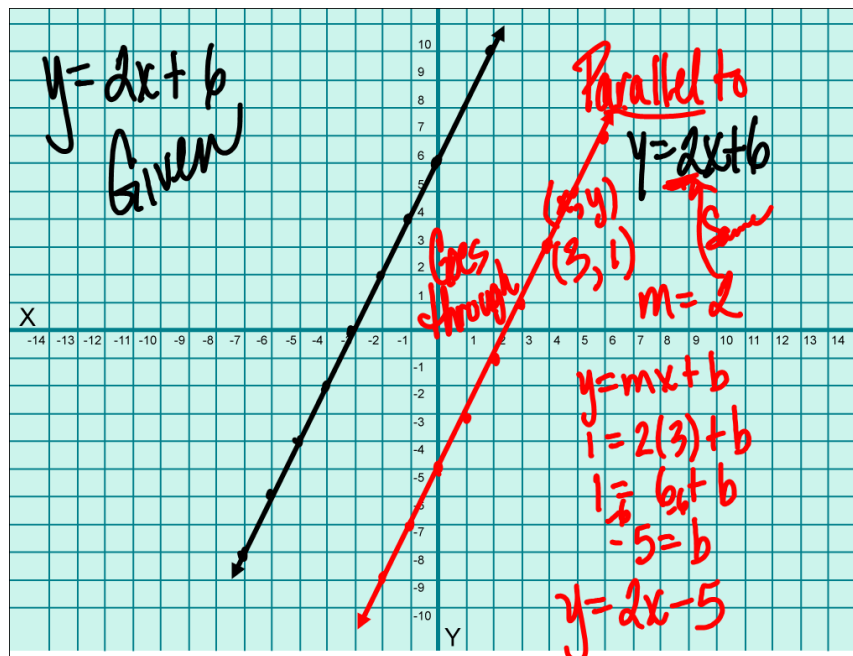
Same slope

Different y-intercept

Perpendicular lines

Opposite

Reciprocal



$$y - y_1 = m(x - x_1) \quad (3, 1)$$

$$y - 1 = 2(x - 3) \quad m = 2$$

$$y - 1 = 2x - 6 + 1$$

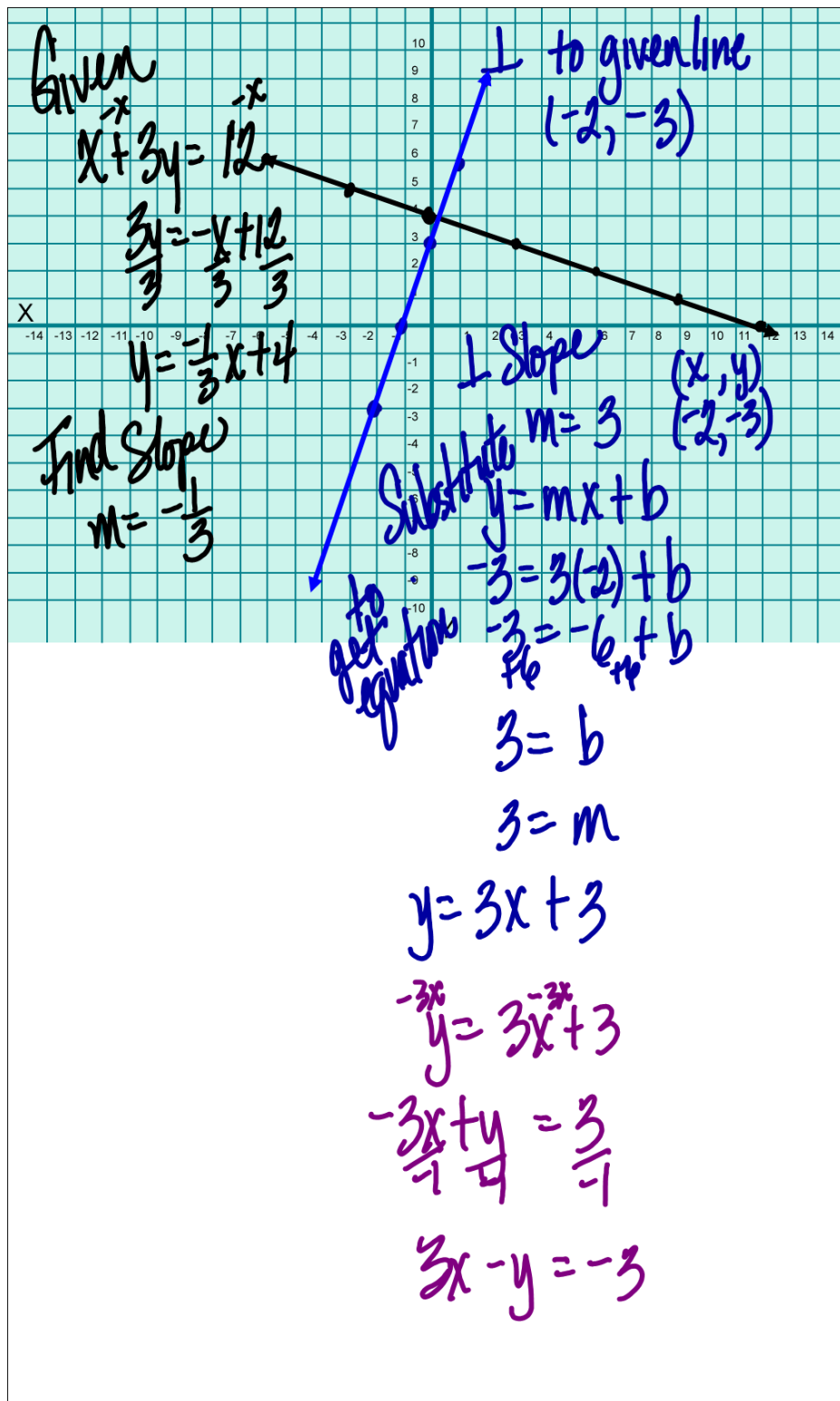
$$y = 2x - 5$$

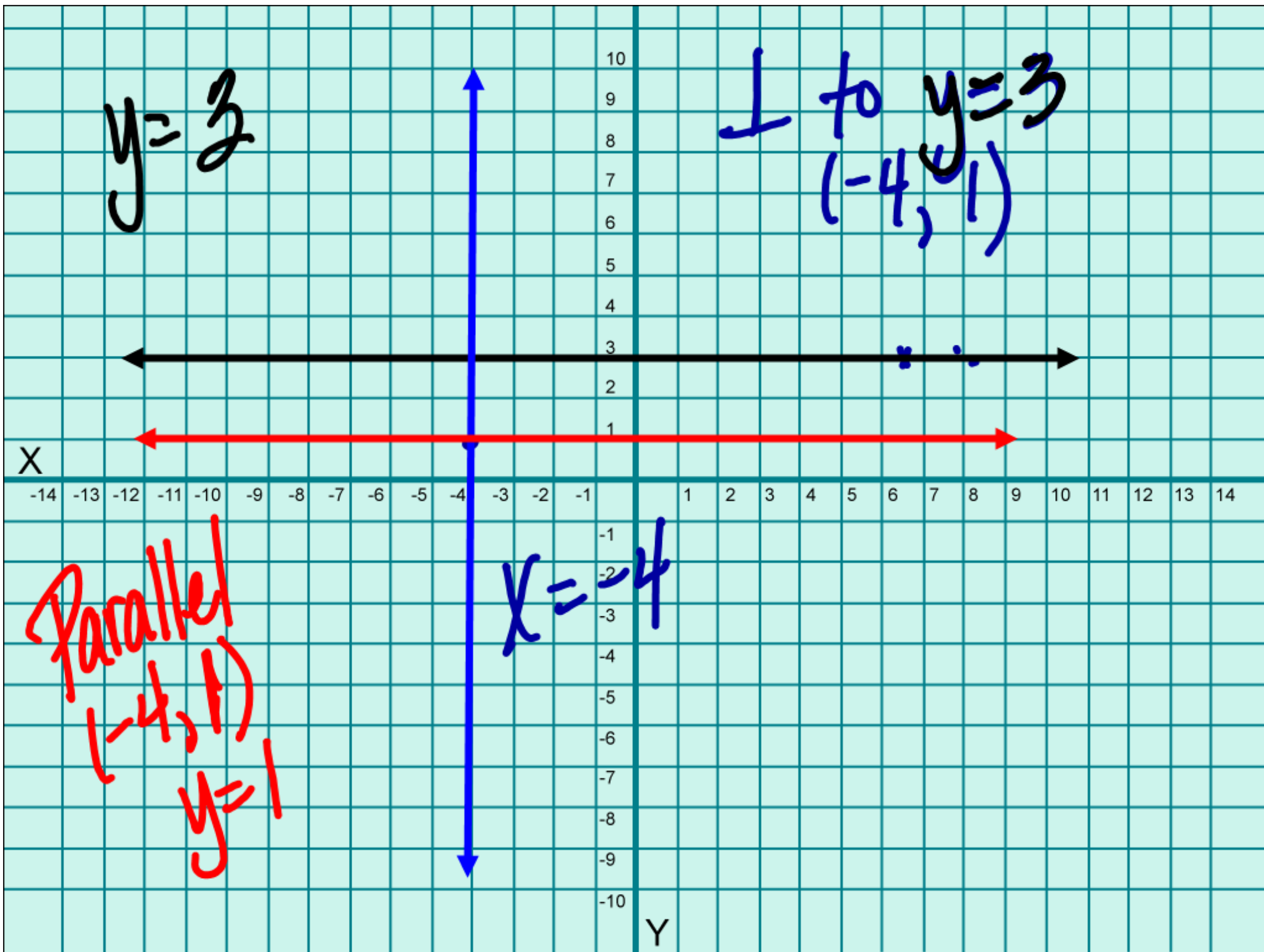
$$Ax + By = C$$

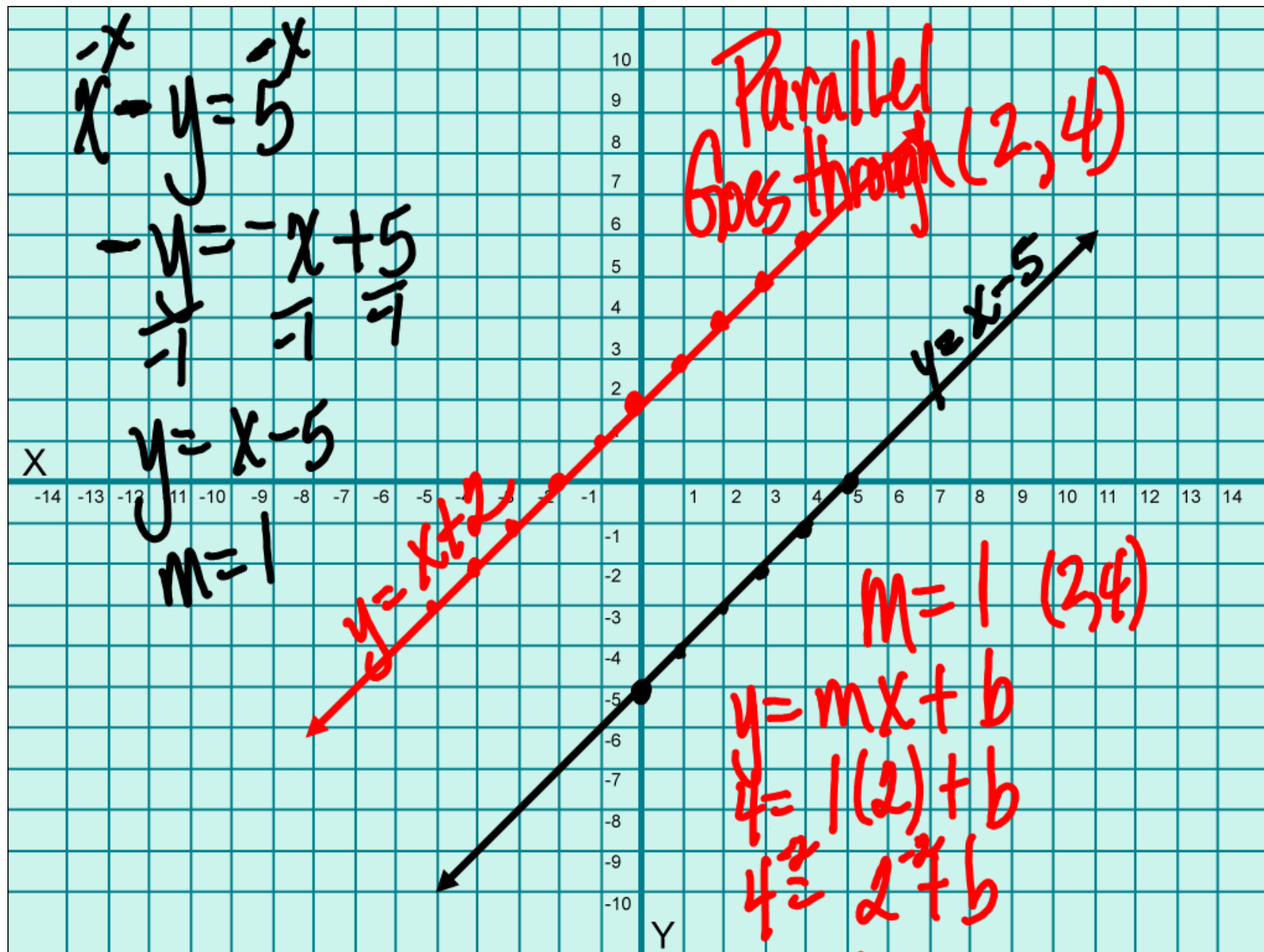
$$-2x + y = -5$$

$$\begin{array}{r} -2x + y = -5 \\ \underline{ + y} \\ + y = -5 \end{array}$$

$$2x - y = 5$$







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