

⑦ $m = 3$
 $b = 1$

⑧ $m = -1$
 $b = 4$

⑨ $m = 2$
 $b = -5$

⑫ $m = -6$
 $b = 0$

⑬ $m = 0$
 $b = 4$

⑮ $y = x - 1$

⑰ $y = 3x + 2$

⑱ $y = \frac{1}{2}x - \frac{1}{2}$

⑳ $y = -\frac{1}{2}x + 3$

㉓ $y = 2x - 3$

㉔ $y = -x$

㉕ $y = -2x + 4$

㉖ $y = \frac{3}{2}x - 2$

㉗ $y = \frac{5}{2}x - \frac{1}{2}$

㉘ $m = \frac{5-3}{2-0} = \frac{2}{2} = 1$

$y = mx + b$ (0,3)

$3 = 1(0) + b$

$3 = 0 + b$

$3 = b$

$y = x + 3$

㉙ $m = \frac{-1-4}{3-2} = \frac{-5}{1} = -5$

$y = mx + b$ (-2,4)

$4 = -1(-2) + b$

$4 = 2 + b$

$$\begin{array}{r} 4 = 2 + b \\ -2 \quad -2 \\ \hline 2 = b \end{array}$$

$y = -x + 2$

㉚ $m = \frac{2-3}{1-3} = \frac{-1}{-2} = \frac{1}{2}$

$y = mx + b$ (1,2)

$2 = \frac{1}{2}(1) + b$

$$\begin{array}{r} 2 = \frac{1}{2} + b \\ + \frac{1}{2} \quad + \frac{1}{2} \\ \hline 2\frac{1}{2} = b \end{array}$$

$y = \frac{1}{2}x + 2\frac{1}{2}$

㉛ $m = \frac{2-1}{4-2} = \frac{1}{2} = \frac{1}{2}$

$y = mx + b$ (4,2)

$2 = \frac{1}{2}(4) + b$

$$\begin{array}{r} 2 = 2 + b \\ -2 \quad -2 \\ \hline 0 = b \end{array}$$

$y = \frac{1}{2}x$

㉜ $m = \frac{5-3}{-12-7} = \frac{2}{-19} = -\frac{2}{19}$

$y = mx + b$ (-12,5)

$5 = -\frac{2}{19}(-12) + b$

$5 = 19\frac{1}{5} + b$

$$\begin{array}{r} 5 = 19\frac{1}{5} + b \\ -19\frac{1}{5} \quad -19\frac{1}{5} \\ \hline -14\frac{1}{5} = b \end{array}$$

$y = -\frac{2}{19}x - 14\frac{1}{5}$

㉝ $m = \frac{0-5}{1-6} = \frac{-5}{-5} = 1$

$y = mx + b$ (1,0)

$0 = 1(1) + b$

$$\begin{array}{r} 0 = 1 + b \\ + \frac{5}{5} \quad + \frac{5}{5} \\ \hline \frac{5}{5} = b \end{array}$$

$y = x + 5$

