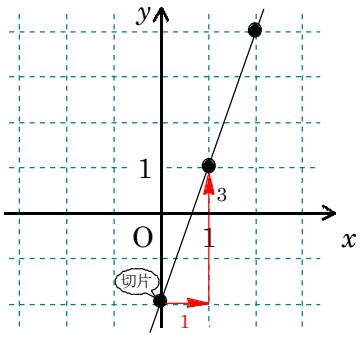
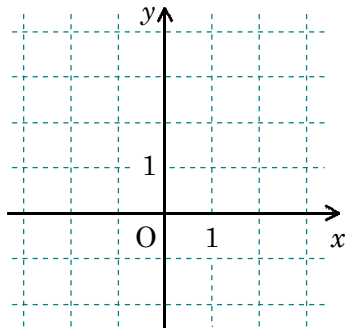
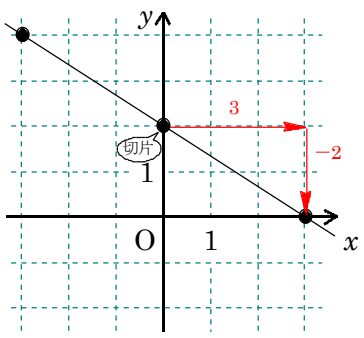
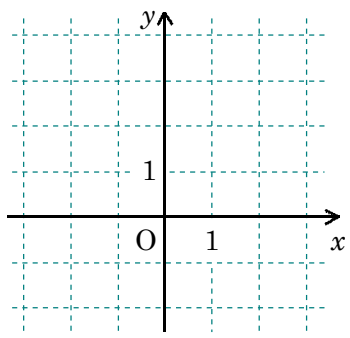
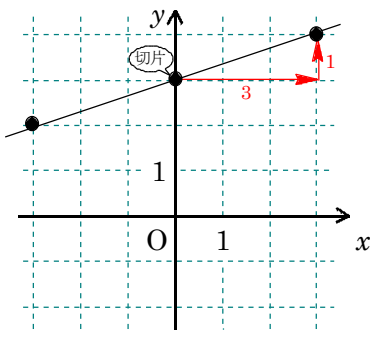
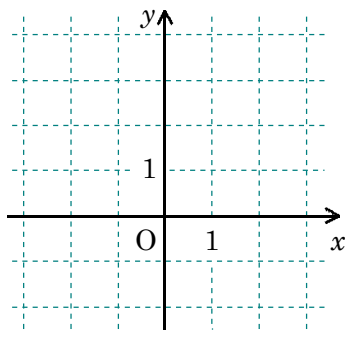
数学Ⅱ　直線の方程式　課題

（　　）年（　　）組（　　）番（　　）

1. 次の直線の傾きと切片を求め，グラフを描きなさい。
Find the slope and intercept of the following straight line and draw a graph.

例題	問題
① $y = 3x - 2$ 傾き 3 (slope)　切片 -2 (intercept) 	① $y = 2x - 1$ 傾き　切片 
② $2x + 3y - 6 = 0$ $3\ y = -2\ x + 6$ $y = -\frac{2}{3}x + 2$ 傾き $-\frac{2}{3}$ (slope)　切片 2 (intercept) 	② $3x + 2y - 2 = 0$ 傾き　切片 
③ $x - 3y + 9 = 0$ $3\ y = x + 9$ $y = \frac{1}{3}x + 3$ 傾き $\frac{1}{3}$ (slope)　切片 3 (intercept) 	③ $x - 2y - 4 = 0$ 傾き　切片 

2. 次の直線の方程式を求めなさい。
Find the equation of the following line.

例題	問題
① 点$(2, 4)$を通り，(passed) 傾きが 3 (slope) $y - 4 = 3(x - 2)$ $y - 4 = 3x - 6$ $y = 3x - 2$	① 点$(2, 3)$を通り， 傾きが 3
② 点$(-2, 4)$を通り，(passed) 傾きが $-\frac{3}{2}$ (slope) $y - 4 = -\frac{3}{2}(x + 2)$ $y - 4 = -\frac{3}{2}x - 3$ $y = -\frac{3}{2}x + 1$	② 点$(-3, 4)$を通り， 傾きが $-\frac{2}{3}$

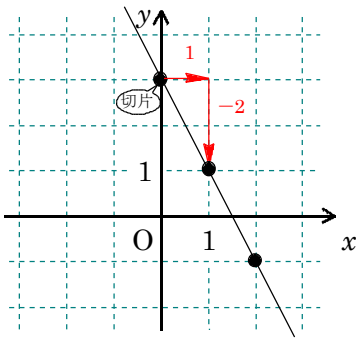
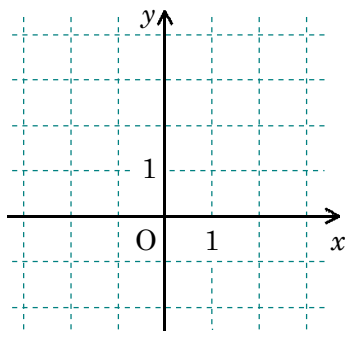
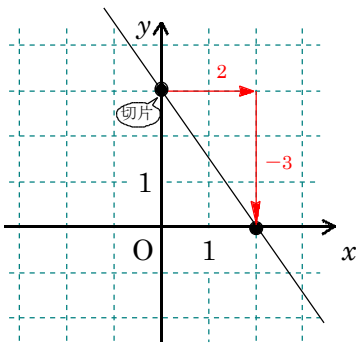
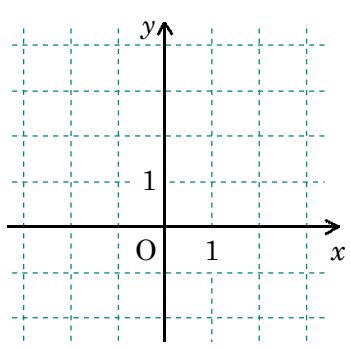
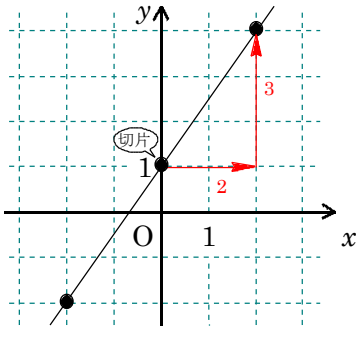
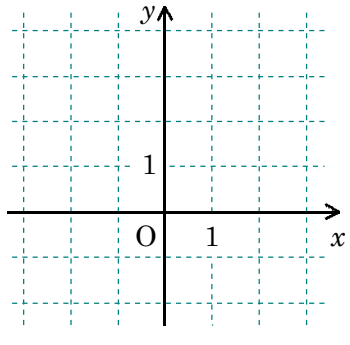
3. 次の2点を通る直線の方程式を求めなさい。
Find the equation of the straight line passing through the following two points.

例題	問題
① A$(2, 1)$, B$(4, 0)$ 傾き $m = \frac{0-1}{4-2}$ (slope) $= -\frac{1}{2}$ $y - 1 = -\frac{1}{2}(x - 2)$ $y - 1 = -\frac{1}{2}x + 1$ $y = -\frac{1}{2}x + 2$	① G$(1, 2)$, H$(2, 4)$
② C$(-2, 1)$, D$(4, 1)$ $y = 1$	② I$(3, 6)$, J$(4, 6)$
③ E$(-3, 1)$, F$(-3, 5)$ $x = -3$	③ K$(4, 1)$, L$(4, 5)$

数学Ⅱ　直線の方程式　2　課題

（　　）年（　　）組（　　）番（　　）

1. 次の直線の傾きと切片を求め，グラフを描きなさい。
Find the slope and intercept of the following straight line and draw a graph.

例題	問題
① $y=-2x+3$ 傾き -2 (slope)　切片 3 (intercept) 	① $y=-x+2$ 傾き　切片 
② $3x+2y-6=0$ $2y=-3x+6$ $y=-\frac{3}{2}x+3$ 傾き $-\frac{3}{2}$ (slope)　切片 3 (intercept) 	② $2x+3y-3=0$ 傾き　切片 
③ $3x-2y+2=0$ $2y=3x+2$ $y=\frac{3}{2}x+1$ 傾き $\frac{3}{2}$ (slope)　切片 1 (intercept) 	③ $x-3y+6=0$ 傾き　切片 

2. 次の直線の方程式を求めなさい。
Find the equation of the following line.

例題	問題
① 点$(2,-1)$を通り，傾きが-2 (passed, slope) $y+1=-2(x-2)$ $y+1=-2x+4$ $y=-2x+3$	① 点$(3,-1)$を通り，傾きが-1
② 点$(-3,3)$を通り，傾きが$-\frac{2}{3}$ (passed, slope) $y-3=-\frac{2}{3}(x+3)$ $y-3=-\frac{2}{3}x-2$ $y=-\frac{2}{3}x+1$	② 点$(-2,6)$を通り，傾きが$-\frac{3}{2}$

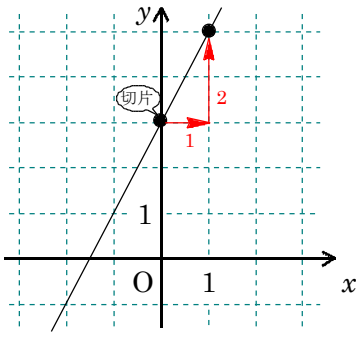
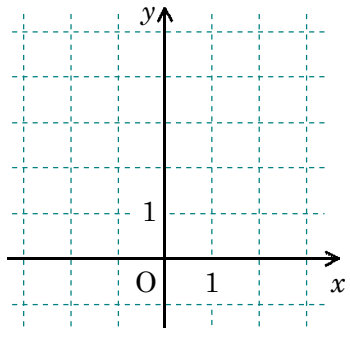
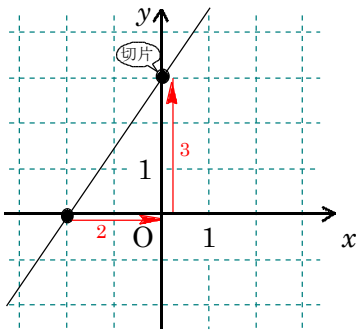
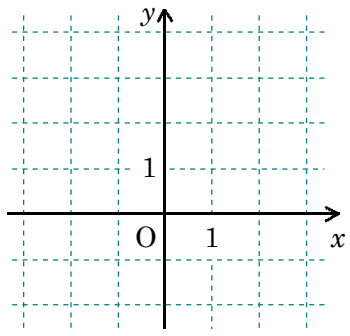
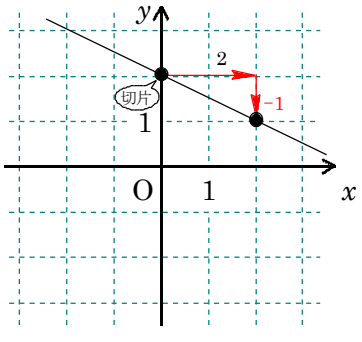
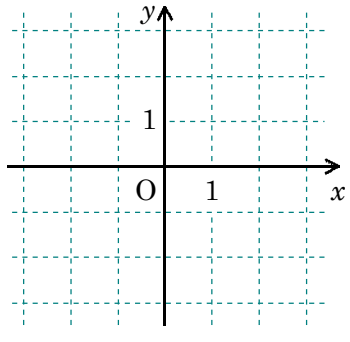
3. 次の2点を通る直線の方程式を求めなさい。
Find the equation of the straight line passing through the following two points.

例題	問題
① A$(0,1)$, B$(2,4)$ 傾き $m=\frac{4-1}{2-0}$ (slope) $=\frac{3}{2}$ $y-4=\frac{3}{2}(x-2)$ $y-4=\frac{3}{2}x-3$ $y=\frac{3}{2}x+1$	① G$(1,2)$, H$(4,3)$
② C$(-2,3)$, D$(4,3)$ $y=3$	② I$(3,5)$, J$(4,5)$
③ E$(-2,1)$, F$(-2,4)$ $x=-2$	③ K$(1,2)$, L$(1,3)$

数学Ⅱ　直線の方程式 3 課題

（　　）年（　　）組（　　）番（　　）

1. 次の直線の傾きと切片を求め，グラフを描きなさい。
Find the slope and intercept of the following straight line and draw a graph.

例題	問題
① $y = 2x + 3$ 傾き 2　切片 3 slope　intercept 	① $y = 3x + 2$ 傾き　切片 
② $3x - 2y + 6 = 0$ $2y = 3x + 6$ $y = \frac{3}{2}x + 3$ 傾き $\frac{3}{2}$　切片 3 slope　intercept 	② $2x - 3y + 6 = 0$ 傾き　切片 
③ $x + 2y - 4 = 0$ $2y = -x + 4$ $y = -\frac{1}{2}x + 2$ 傾き $-\frac{1}{2}$　切片 2 slope　intercept 	③ $x + 3y - 6 = 0$ 傾き　切片 

2. 次の直線の方程式を求めなさい。
Find the equation of the following line.

例題	問題
① 点$(-2, -1)$を通り，passed 傾きが 2 slope $y + 1 = 2(x + 2)$ $y + 1 = 2x + 4$ $y = 2x + 3$	① 点$(-1, -1)$を通り， 傾きが 3
② 点$(3, 4)$を通り，passed 傾きが $\frac{2}{3}$ slope $y - 4 = \frac{2}{3}(x - 3)$ $y - 4 = \frac{2}{3}x - 2$ $y = \frac{2}{3}x + 2$	② 点$(2, 6)$を通り， 傾きが $\frac{3}{2}$

3. 次の2点を通る直線の方程式を求めなさい。
Find the equation of the straight line passing through the following two points.

例題	問題
① A$(0, 2)$, B$(3, 1)$ 傾き $m = \frac{1-2}{3-0}$ slope $= -\frac{1}{3}$ $y - 1 = -\frac{1}{3}(x - 3)$ $y - 1 = -\frac{1}{3}x + 1$ $y = -\frac{1}{3}x + 2$	① G$(0, 2)$, H$(2, 1)$
② C$(1, -2)$, D$(4, -2)$ $y = -2$	② I$(3, 3)$, J$(4, 3)$
③ E$(-1, 1)$, F$(-1, 5)$ $x = -1$	③ K$(2, 1)$, L$(2, 2)$