

Aコース

① $A=4x-7, B=-3x+9$

$$\begin{aligned}
 & 2A + B \\
 &= 2(4x-7) + (-3x+9) \\
 &= 8x-14-3x+9 \\
 &= 5x-5
 \end{aligned}$$

$$\begin{aligned}
 & 3A - 2B \\
 &= 3(4x-7) - 2(-3x+9) \\
 &= 12x-21+6x-18 \\
 &= 18x-39
 \end{aligned}$$

② $A=-2x+1, B=5x-6$

$$\begin{aligned}
 & -3A - B \\
 &= -3(-2x+1) - (5x-6) \\
 &= 6x-3-5x+6 \\
 &= x+3
 \end{aligned}$$

$$\begin{aligned}
 & 8A - 7B \\
 &= 8(-2x+1) - 7(5x-6) \\
 &= -16x+8-35x+42 \\
 &= -51x+50
 \end{aligned}$$

③ $A=6x+4, B=-3x-2$

$$\begin{aligned}
 & 5A - 2B \\
 &= 5(6x+4) - 2(-3x-2) \\
 &= 30x+20+6x+4 \\
 &= 36x+24
 \end{aligned}$$

$$\begin{aligned}
 & -9A - 6B \\
 &= -9(6x+4) - 6(-3x-2) \\
 &= -54x-36+18x+12 \\
 &= -36x-24
 \end{aligned}$$

Bコース

① $A=5x-8, B=-4x+1$

$$\begin{aligned}
 & 3A - 3B \\
 &= 3(5x-8) - 3(-4x+1) \\
 &= 15x-24+12x-3 \\
 &= 27x-27
 \end{aligned}$$

$$\begin{aligned}
 & -4A + 5B \\
 &= -4(5x-8) + 5(-4x+1) \\
 &= -20x+32-20x+5 \\
 &= -40x+37
 \end{aligned}$$

② $A=-3x+2, B=6x-7$

$$\begin{aligned}
 & -2A - 9B \\
 &= -2(-3x+2) - 9(6x-7) \\
 &= 6x-4-54x+63 \\
 &= -48x+59
 \end{aligned}$$

$$\begin{aligned}
 & 7A - 6B \\
 &= 7(-3x+2) - 6(6x-7) \\
 &= -21x+14-36x+42 \\
 &= -57x+56
 \end{aligned}$$

③ $A=5x+3, B=-2x-1$

$$\begin{aligned}
 & 4A - B \\
 &= 4(5x+3) - (-2x-1) \\
 &= 20x+12+2x+1 \\
 &= 22x+13
 \end{aligned}$$

$$\begin{aligned}
 & -8A - 5B \\
 &= -8(5x+3) - 5(-2x-1) \\
 &= -40x-24+10x+5 \\
 &= -30x-19
 \end{aligned}$$

Cコース

① $A=6x-9, B=-5x+1$

$$\begin{aligned}
 & -A + 4B \\
 &= -(6x-9) + 4(-5x+1) \\
 &= -6x+9-20x+4 \\
 &= -26x+13
 \end{aligned}$$

$$\begin{aligned}
 & 6A - 8B \\
 &= 6(6x-9) - 8(-5x+1) \\
 &= 36x-54+40x-8 \\
 &= 76x-62
 \end{aligned}$$

② $A=-4x+3, B=7x-9$

$$\begin{aligned}
 & -2A - 5B \\
 &= -2(-4x+3) - 5(7x-9) \\
 &= 8x-6-35x+45 \\
 &= -27x+39
 \end{aligned}$$

$$\begin{aligned}
 & 3A - 2B \\
 &= 3(-4x+3) - 2(7x-9) \\
 &= -12x+9-14x+18 \\
 &= -26x+27
 \end{aligned}$$

③ $A=4x+2, B=-x-9$

$$\begin{aligned}
 & -3A - 9B \\
 &= -3(4x+2) - 9(-x-9) \\
 &= -12x-6+9x+81 \\
 &= -3x+75
 \end{aligned}$$

$$\begin{aligned}
 & -7A + 3B \\
 &= -7(4x+2) + 3(-x-9) \\
 &= -28x-14-3x-27 \\
 &= -31x-41
 \end{aligned}$$