P.43

① $E[-2X + Y + 3] \overset{性質1 \\ と性質6}{=} -2E[X] + E[Y] + 3$

$= -2 \times 3 + 4 + 3 = 1$

② $Var[-2X + Y] \overset{性質7}{=} (-2)^2 Var[X] + 1^2 Var[Y] + 2 \times (-2) \times 1 \times Cov[X,Y]$

$= (-2)^2 \times 3 + 1^2 \times 4 + 2 \times (-2) \times 1 \times (-2) = 24$

③ $Var[-2X + Y] \overset{性質7}{=} (-2)^2 Var[X] + 1^2 Var[Y] + 2 \times (-2) \times 1 \times \underline{Cov[X,Y]}$

$\overset{}{\underset{}{\parallel \, 性質10 \\ 0}}$

$= (-2)^2 \times 3 + 1^2 \times 4 = 16$