

$$6) 2(x + (x+2)) - 2x(x+2) - 2(5x+10+2x)$$

$$2(x^2 + 2x) - 2x(x+2) - 2(5x+10+2x)$$

$$2x^2 - 2x^2 - 4x - 34$$

$$4x^2 - 14x - 34$$

$$c) \begin{pmatrix} 3 & -1 & 4 \\ 5 & 3 & -1 \\ 2 & 4 & 3 \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} \begin{pmatrix} 21 \\ 15 \\ 10 \end{pmatrix}$$

$$1A) 3(9-4) + 1(15-2) + 4(20+6)$$

$$18 \quad 13 \quad 104$$

$$= 132$$

$$A' \begin{pmatrix} 21 & -1 & 4 \\ 15 & 3 & -1 \\ 10 & 4 & 3 \end{pmatrix}$$

$$21(6-4) + 1(45-10) + 4(60+30)$$

$$42 \quad 55 \quad 360$$

$$= 457$$

$$A_2 \begin{pmatrix} 21 & 4 \\ 15 & -1 \\ 10 & 3 \end{pmatrix}$$

$$3(30-10) - 21(15-2) + 4(50+30)$$

$$60 \quad -273 \quad 320$$

$$= 107$$