$$A = \begin{bmatrix} 2 & -1 & 5 \\ 3 & 4 & 1 \end{bmatrix} \quad \text{and} \quad B = \begin{bmatrix} 1 & 0 & -2 \\ 2 & 3 & 4 \end{bmatrix}$$

8. (At 28)T

A+2B=
$$\begin{bmatrix} 2 & -1 & 5 \\ 3 & 4 & 1 \end{bmatrix}$$
+2 $\begin{bmatrix} 1 & 0 & -2 \\ 2 & 3 & 4 \end{bmatrix}$ = $\begin{bmatrix} 2 & -1 & 5 \\ 3 & 4 & 1 \end{bmatrix}$ + $\begin{bmatrix} 2 & 0 & -4 \\ 4 & 6 & 8 \end{bmatrix}$ = $\begin{bmatrix} 4 & -1 & 1 \\ 7 & 10 & 9 \end{bmatrix}$ 

$$(A+1)B)^{\mathsf{T}} = \begin{bmatrix} 4 & 7 \\ -1 & 10 \\ 1 & 9 \end{bmatrix}_{\cancel{*}}$$

- 11.-(β<sup>T</sup>)

$$B^{T} = \begin{bmatrix} 1 & 2 \\ 0 & 3 \\ -2 & 4 \end{bmatrix} \Rightarrow -\begin{pmatrix} B^{T} \end{pmatrix} = -\begin{bmatrix} 1 & 2 \\ 0 & 3 \\ -2 & 4 \end{bmatrix} = \begin{bmatrix} -1 & -2 \\ 0 & -3 \\ 2 & -4 \end{bmatrix}_{\cancel{\#}}$$

In Exercises 25-28 assume that 
$$A = \begin{bmatrix} \frac{3}{0} & \frac{-2}{0} \\ \frac{2}{11} & \frac{5}{0} \end{bmatrix}$$

25. Determine Q12

18. Determine az

$$\mathbb{A}_{2} = \begin{bmatrix} -2 \\ 1.6 \\ 5 \end{bmatrix}_{\mathcal{H}}$$