

**MATH 260, Homework 2, Spring '14**

**Due: January 24, 2014**

**Honor Code:**

**Name:**

1) (20 pts) Find:  $3\mathbf{X}^2 + \mathbf{Y}^T$  for  $\mathbf{X}$  and  $\mathbf{Y}$  given below. You MUST show intermediate calculations to get full credit.

$$\mathbf{X} = \begin{bmatrix} 1 & 4 & 0 \\ -3 & 5 & 1 \\ 1 & 0 & -6 \end{bmatrix} \quad \mathbf{Y} = \begin{bmatrix} 0 & 1 & w \\ 1 & -z & 3 \\ 0 & 9 & -4 \end{bmatrix}$$