

[Submitting HW Tips](#)**HW # 8**

1 Page 249: #4.1(h)(j).

2 **TRUE/FALSE Questions**: Page 258: #4.9, 4.10.

3 Page 259: #4.15(b).

4 If A and B are 2×2 matrices, $\det A = 4$, and $|B| = -3$, then $\det \left\{ -5A^3 \left(\frac{1}{2} A \right)^{-1} B^t \right\} = ?$

5 Given $A = \begin{bmatrix} 1 & 1 \\ 4 & 1 \end{bmatrix}$, find all scalars λ such that

$$\det(A - \lambda I) = 0.$$

i.e. the matrix $(A - \lambda I)$ has no inverse.