

**Samples**                      **Matrix Arithmetic**

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**1.** Evaluate:      $\begin{pmatrix} 5 & -5 & -3 \end{pmatrix} \times \begin{pmatrix} -6 & 4 \\ 0 & -4 \\ -6 & -1 \end{pmatrix}$

**2.** Evaluate:      $\begin{pmatrix} 1 \\ 0 \end{pmatrix} \times \begin{pmatrix} 2 & -5 & -5 \end{pmatrix}$

**3.** Evaluate:      $\begin{pmatrix} 3 & -3 \\ 1 & -2 \\ 2 & 2 \end{pmatrix} \times \begin{pmatrix} 0 & 6 \\ -1 & 0 \end{pmatrix}$