1. (4 points) Let

\[ A = \begin{bmatrix} 1 & 0 \\ -1 & 6 \end{bmatrix}, \quad B = \begin{bmatrix} 2 & -1 \\ 0 & 1 \end{bmatrix}, \quad \text{and} \quad C = \begin{bmatrix} 1 & 0 \\ 2 & 3 \end{bmatrix}. \]

Find \( \det((2B - A)C) \).

2. (3 points) Find the section of the graph of \( f(x, y) = xy^2 \) in the plane \( x = 1 \). Is the section a line, parabola, ellipse, hyperbola or none of the above?

3. (3 points) Find (the parametric equation of) the intersection of the planes \( 2x - y + z = 0 \) and \( 5x + z = 0 \).