Due: N/A

Throughout the course, we will use **EK** to refer to the course textbook "Erwin Kreyszig: *Advanced Engineering Mathematics*, 10th edition."

Reading: Chapter 5

1. **EK** P174: 2,3,15

2. **EK** P186: 2,3,4

3. **EK** P200 (5.5): 1

4. **EK** P402: 11,12,13

5. **EK** P406: 1,2

6. Let

$$a = \begin{bmatrix} 2 \\ 1 \\ 0 \end{bmatrix}, \ b = \begin{bmatrix} -3 \\ 2 \\ 0 \end{bmatrix}, \ c = \begin{bmatrix} 1 \\ 4 \\ -2 \end{bmatrix}$$

Compute

$$a \times b$$
,  $b \times a$ ,  $(a \times c) \times b$