

MATHEMATICS 2270. Homework # 5.

1. Section 3.4, # 14.

2. Are the following matrices similar:

$$A = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}, B = \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix} \quad ?$$

3. Compute cosine of the angle between the following vectors and determine if the angle is acute or obtuse:

$$(1, 1, 1), \quad (2, 3, 1).$$

4. §5.1, # 23.

5. §5.1, # 26.

6. §5.2, # 10.