

Math 320 Linear Algebra
Assignment # 2 Due: Tuesday, September 22

Textbook Problems:

1.3: 6, 12, 14, 16, 18, 32

1.4: 2, 4, 12

1.5: 8, 10, 14

Additional Problems:

1. Suppose that A is an $m \times n$ matrix, $c \in \mathbb{R}$ and $\vec{u} \in \mathbb{R}^n$, Show that:

$$A(c\vec{u}) = c(A\vec{u})$$

Hint: This is part of Theorem 5. We did the other part in class, use that as your guide.