

## Math 320 Linear Algebra Assignment # 4

1. Suppose that  $c \in \mathbb{R}$ ,  $A \in \mathbb{R}^{m \times n}$ , 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.