Name: _____

Directions: Show all work. No credit for answers without work.

1. [**4 points**] Let A, B, and C be matrices of appropriate sizes. Find an identity that expresses $(ABC)^T$ in terms of A^T, B^T, and C^T.

2. [**6 points**] Prove that if A, B, and C are matrices of appropriate sizes, then $C(A + B) = CA + CB$.