

Last name \_\_\_\_\_

First name \_\_\_\_\_

**LARSON—MATH 310—WORKSHEET 16**  
**Dimension of a Vector Space.**

1. Find a basis for the vector space of matrices  $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$  where  $a = c$  and  $b = 2d$ .

2. Find the dimension of this vector space.