

(17) (a) Part (c) of Exercise 16 states that  $T_1(\ker(T \circ T_1)) = \ker(T)$ . Substituting  $T = L_2 \circ L$  and  $T_1 = L_1^{-1}$  yields

$$L_1^{-1}(\ker(L_2 \circ L \circ L_1^{-1})) = \ker(L_2 \circ L).$$

Now  $M = L_2 \circ L \circ L_1^{-1}$ . Hence,  $L_1^{-1}(\ker(M)) = \ker(L_2 \circ L)$ .

(b) With  $L_2 = T_2$  and  $L = T$ , part (a) of Exercise 16 shows that  $\ker(L_2 \circ L) = \ker(L)$ . This, combined with part (a) of this exercise, shows that  $L_1^{-1}(\ker(M)) = \ker(L)$ .

(c) From part (b),

$$\dim(\ker(L)) = \dim(L_1^{-1}(\ker(M))).$$

Apply Exercise 15 with  $L$  replaced by  $L_1^{-1}$  and  $\mathcal{Y} = \ker(M)$  to show that

$$\dim(L_1^{-1}(\ker(M))) = \dim(\ker(M)),$$

completing the proof.

(d) Part (c) of Exercise 16 states that  $\text{range}(T_2 \circ T) = T_2(\text{range}(T))$ . Substituting  $L \circ L_1^{-1}$  for  $T$  and  $L_2$  for  $T_2$  yields

$$\text{range}(L_2 \circ L \circ L_1^{-1}) = L_2(\text{range}(L \circ L_1^{-1})).$$

Apply  $L_2^{-1}$  to both sides to produce

$$L_2^{-1}(\text{range}(L_2 \circ L \circ L_1^{-1})) = \text{range}(L \circ L_1^{-1}).$$

Using  $M = L_2 \circ L \circ L_1^{-1}$  gives  $L_2^{-1}(\text{range}(M)) = \text{range}(L \circ L_1^{-1})$ , the desired result.

(e) Part (b) of Exercise 16 states that  $\text{range}(T \circ T_1) = \text{range}(T)$ . Substituting  $L$  for  $T$  and  $L_1^{-1}$  for  $T_1$  produces  $\text{range}(L \circ L_1^{-1}) = \text{range}(L)$ . Combining this with

$$L_2^{-1}(\text{range}(M)) = \text{range}(L \circ L_1^{-1})$$

from part (d) of this exercise yields  $L_2^{-1}(\text{range}(M)) = \text{range}(L)$ .

(f) From part (e),  $\dim(L_2^{-1}(\text{range}(M))) = \dim(\text{range}(L))$ . Apply Exercise 15 with  $L$  replaced by  $L_2^{-1}$  and  $\mathcal{Y} = \text{range}(M)$  to show that

$$\dim(L_2^{-1}(\text{range}(M))) = \dim(\text{range}(M)),$$

completing the proof.

(18) (a) A nonsingular  $2 \times 2$  matrix must have at least one of its first column entries nonzero. Then, use an appropriate equation from the two given in the problem.

(b)  $\begin{bmatrix} k & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} kx \\ y \end{bmatrix}$ , a contraction (if  $k \leq 1$ ) or dilation (if  $k \geq 1$ ) along the  $x$ -coordinate.

Similarly,  $\begin{bmatrix} 1 & 0 \\ 0 & k \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} x \\ ky \end{bmatrix}$ , a contraction (if  $k \leq 1$ ) or dilation (if  $k \geq 1$ ) along the  $y$ -coordinate.

(c) By the hint, multiplying by  $\begin{bmatrix} k & 0 \\ 0 & 1 \end{bmatrix}$  first performs a dilation/contraction by part (a) followed by

a reflection about the  $y$ -axis. Using  $\begin{bmatrix} 1 & 0 \\ 0 & k \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix} \begin{bmatrix} 1 & 0 \\ 0 & -k \end{bmatrix}$  shows that multiplying

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**David Baud**

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