

**matrix review**  
**Answer Section****SHORT ANSWER**

1. ANS:  
4; 3; 1; 5; 4; 1; 4; 4

PTS: 1

2. ANS:  
-7; -6; 10; 8

PTS: 1

3. ANS:  
$$\begin{bmatrix} 4 & 4 & 7 \\ 2 & 6 & 11 \end{bmatrix}$$

PTS: 1

4. ANS:  
$$\begin{bmatrix} 13 & 0 & 4 & -7 \\ 7 & 6 & 0 & -4 \end{bmatrix}$$

PTS: 1

5. ANS:  
$$\begin{bmatrix} -5 & -1 & 23 \\ 25 & 14 & 17 \\ 33 & 25 & 27 \end{bmatrix}$$

PTS: 1

6. ANS:  
 $x = 3, y = 9, z = 3, u = 6$

PTS: 1

7. ANS:  
 $x = 7, y = 3, z = -4, u = 1$

PTS: 1

8. ANS:  
$$\begin{bmatrix} -2 \\ 7 \end{bmatrix}$$

PTS: 1

9. ANS:

$$\begin{bmatrix} 19 & -2 \\ 17 & 15 \end{bmatrix}$$

PTS: 1

10. ANS:

$$\begin{bmatrix} 4 & -5 & 7 \\ -3 & 1 & -7 \\ 5 & -6 & 8 \end{bmatrix}$$

PTS: 1

11. ANS:

$$\begin{bmatrix} 2 & -3 \\ 3 & -5 \end{bmatrix}, \begin{bmatrix} x \\ y \end{bmatrix}, \begin{bmatrix} 4 \\ 7 \end{bmatrix}$$

PTS: 1

12. ANS:

$$\begin{bmatrix} 5 & -6 & 7 \\ 0 & 7 & -8 \\ 1 & -1 & 5 \end{bmatrix}, \begin{bmatrix} x \\ y \\ z \end{bmatrix}, \begin{bmatrix} 8 \\ 5 \\ 2 \end{bmatrix}$$

PTS: 1

13. ANS:

$$x = 1, y = 1$$

PTS: 1

14. ANS:

$$x = 42, y = 16, z = -1$$

PTS: 1

15. ANS:

$$14.48; 2.07; 1.72; 8.28; 1.9; 2.41$$

PTS: 1

16. ANS:

$$600; 200; 200$$

PTS: 1

17. ANS:

$$2; 6$$

PTS: 1

18. ANS:  
0; 250; 500

PTS: 1

19. ANS:  
30; 10; 230

PTS: 1