

# Trig Chapter 5 Practice Test 1

Name \_\_\_\_\_

Solve each system by either substitution or elimination.

1. 
$$\begin{cases} y = 2x + 4 \\ 3y + x = 19 \end{cases} \quad x = \underline{\quad} \quad y = \underline{\quad}$$

2. 
$$\begin{cases} 5y - x = 1 \\ 3y + x = 19 \end{cases} \quad x = \underline{\quad} \quad y = \underline{\quad}$$

3. 
$$\begin{cases} y = 2x + 4 \\ y = 3x - 5 \end{cases} \quad x = \underline{\quad} \quad y = \underline{\quad}$$

4. 
$$\begin{cases} 3n + 2b = 13 \\ 2n + 5b = 27 \end{cases} \quad n = \underline{\quad} \quad b = \underline{\quad}$$

5. 
$$\begin{cases} n + 2b = 21 \\ 2n + 5b = 52 \end{cases} \quad n = \underline{\quad} \quad b = \underline{\quad}$$

6. 
$$\begin{cases} 5n + 2b = 10 \\ 3n + 5b = 6 \end{cases} \quad n = \underline{\quad} \quad b = \underline{\quad}$$

$$A = \begin{bmatrix} 1 & 2 & 7 \end{bmatrix} \quad B = \begin{bmatrix} 4 \\ 5 \\ 1 \end{bmatrix} \quad C = \begin{bmatrix} 5 & 4 \\ 6 & 5 \end{bmatrix} \quad D = \begin{bmatrix} 4 & 4 & 8 \\ 1 & 7 & 5 \\ 1 & 2 & 6 \end{bmatrix}$$

$$E = \begin{bmatrix} 3 & -5 \\ 3 & -1 \end{bmatrix} \quad F = \begin{bmatrix} 6 & 4 \\ 1 & 1 \end{bmatrix} \quad G = \begin{bmatrix} -4 & 0 \\ -5 & 5 \end{bmatrix}$$

Calculate the following. You might need to do them on a separate piece of paper.

7.  $E + C$

8.  $5D$

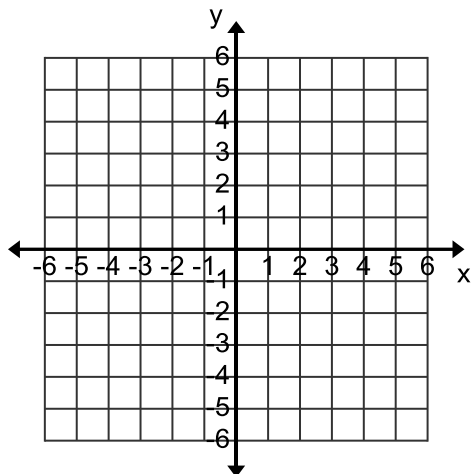
9.  $EF$

10.  $AB$

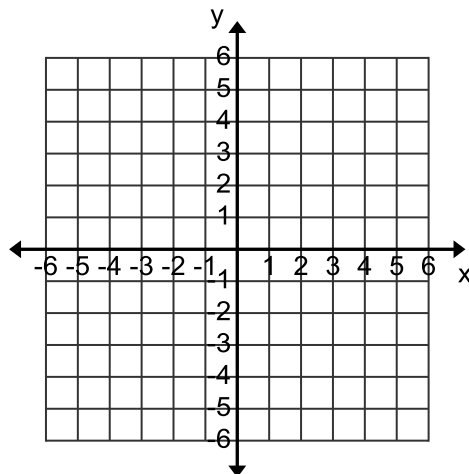
11.  $FG$

Graph the following on the given graphs.

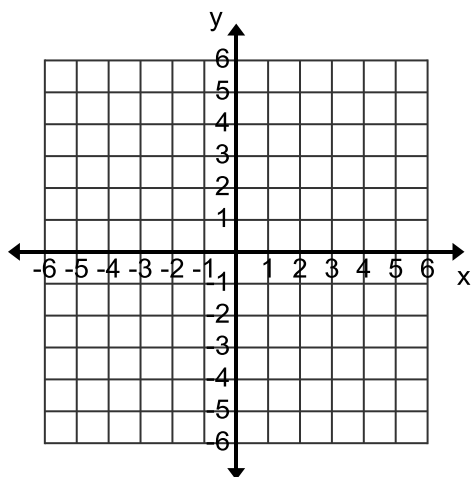
12. 
$$\begin{cases} y > -x+1 \\ y \leq \frac{1}{2}x+1 \end{cases}$$



13. 
$$\begin{cases} y \leq x-1 \\ y > -2x+1 \end{cases}$$



14. 
$$\begin{cases} y \leq \frac{1}{3}x+1 \\ y \leq 3x-1 \end{cases}$$



15. 
$$\begin{cases} y > -1 \\ y < 3 \\ x > -1 \\ x < 2 \end{cases}$$

