

## Trig Chapter 5 Practice Test 2

Name \_\_\_\_\_

Solve each system by either substitution or elimination.

1.  $\begin{cases} y = x + 4 \\ 2y + x = 23 \end{cases}$        $x = \underline{\hspace{1cm}}$      $y = \underline{\hspace{1cm}}$

2.  $\begin{cases} y - x = 1 \\ y + 3x = 13 \end{cases}$        $x = \underline{\hspace{1cm}}$      $y = \underline{\hspace{1cm}}$

3.  $\begin{cases} y = x + 4 \\ y = 2x - 1 \end{cases}$        $x = \underline{\hspace{1cm}}$      $y = \underline{\hspace{1cm}}$

4.  $\begin{cases} 5n + 4b = 1 \\ 2n + 2b = 0 \end{cases}$        $x = \underline{\hspace{1cm}}$      $y = \underline{\hspace{1cm}}$

5.  $\begin{cases} 3n + 2b = 0 \\ 2n + 5b = -11 \end{cases}$        $x = \underline{\hspace{1cm}}$      $y = \underline{\hspace{1cm}}$

6.  $\begin{cases} 5n + 2b = 24 \\ 3n + 5b = 22 \end{cases}$        $x = \underline{\hspace{1cm}}$      $y = \underline{\hspace{1cm}}$

$$A = \begin{bmatrix} 5 & 4 & 1 \end{bmatrix} \quad B = \begin{bmatrix} 3 \\ 5 \\ -4 \end{bmatrix} \quad C = \begin{bmatrix} 4 & 4 \\ -1 & 2 \end{bmatrix} \quad D = \begin{bmatrix} 4 & 1 & 8 \\ 4 & 6 & 5 \\ 1 & 2 & 1 \end{bmatrix}$$

$$E = \begin{bmatrix} 2 & 5 \\ 1 & -1 \end{bmatrix} \quad F = \begin{bmatrix} 1 & 0 \\ 1 & 2 \end{bmatrix} \quad G = \begin{bmatrix} 2 & 1 \\ -1 & 2 \end{bmatrix}$$

Calculate the following.

7.  $E + C$

8.  $3D$

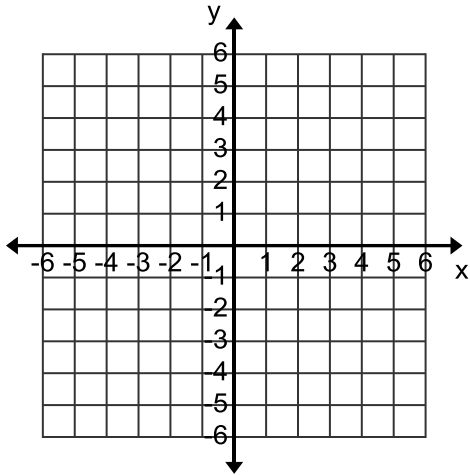
9.  $EE$

10.  $AB$

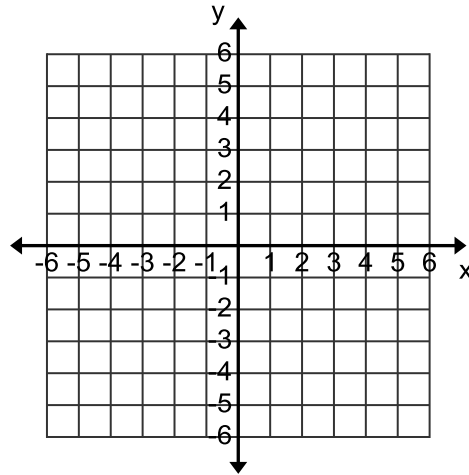
11.  $FG$

Graph the following on the given graphs.

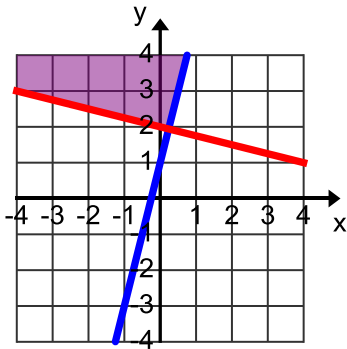
12. 
$$\begin{cases} y > -2x + 1 \\ y \leq \frac{1}{3}x + 2 \end{cases}$$



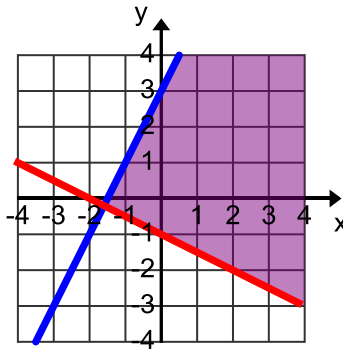
13. 
$$\begin{cases} y > -2 \\ y < 3 \\ x > -1 \\ y > 2x + 1 \end{cases}$$



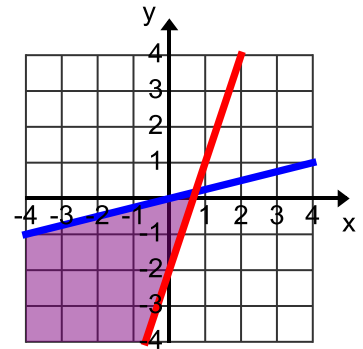
**13-15 Tell what system of inequalities is graphed.**



13. 
$$\left\{ \begin{array}{l} \\ \\ \end{array} \right.$$



14. 
$$\left\{ \begin{array}{l} \\ \\ \end{array} \right.$$



15. 
$$\left\{ \begin{array}{l} \\ \\ \end{array} \right.$$