

## Trig Chapter 5 Practice Test 2 2016-17

Name \_\_\_\_\_

Solve each system by either substitution or elimination.

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

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

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

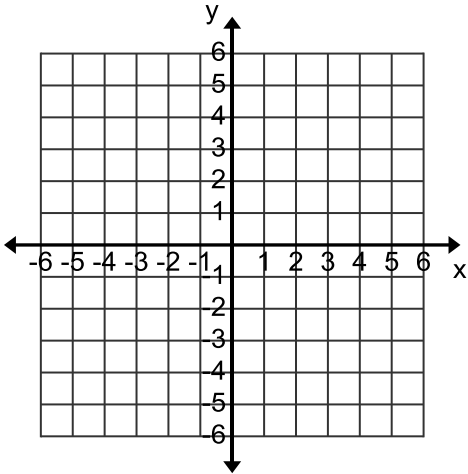
4. 
$$\begin{cases} 5n + 4b = 1 \\ 2n + 2b = 0 \end{cases}$$

5. 
$$\begin{cases} 3n + 2b = 0 \\ 2n + 5b = -11 \end{cases}$$

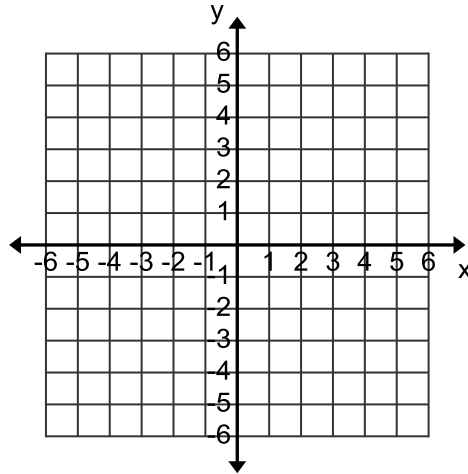
6. 
$$\begin{cases} 5n + 2b = 24 \\ 3n + 5b = 22 \end{cases}$$

Graph the following on the given graphs.

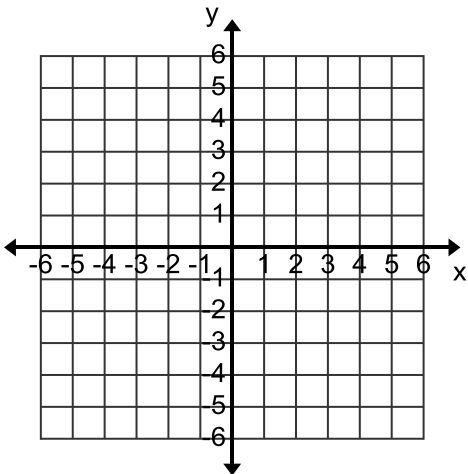
7. 
$$\begin{cases} y > -2x + 1 \\ y \leq \frac{1}{3}x + 2 \end{cases}$$



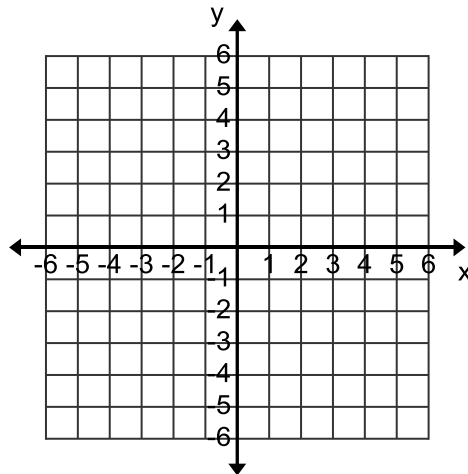
8. 
$$\begin{cases} y > x + 1 \\ y > -3x + 1 \end{cases}$$



9. 
$$\begin{cases} y \leq \frac{1}{3}x + 1 \\ y \leq 3 \\ y \geq 1 \end{cases}$$



10. 
$$\begin{cases} y > -2 \\ y < 3 \\ x > -1 \\ y > 2x + 1 \end{cases}$$



$$A = \begin{bmatrix} 5 & 4 & 1 \end{bmatrix} \quad B = \begin{bmatrix} 3 \\ 5 \\ -4 \end{bmatrix} \quad C = \begin{bmatrix} 4 & 4 \\ -1 & 2 \end{bmatrix} \quad D = \begin{bmatrix} 4 & 1 & 8 \\ 4 & 6 & 5 \\ 1 & 2 & 1 \end{bmatrix}$$
$$E = \begin{bmatrix} 2 & 5 \\ 1 & -1 \end{bmatrix} \quad F = \begin{bmatrix} 1 & 0 \\ 1 & 2 \end{bmatrix} \quad G = \begin{bmatrix} 2 & 1 \\ -1 & 2 \end{bmatrix}$$

Calculate the following.

11.  $E + C$

12.  $3D$

13.  $EE$

14.  $AB$

15.  $FG$