Unit 7 Objective 1 Remediation

## Graphing a Linear Inequality in Two Variables

## Steps to Graph an Inequality

* Write the inequality in slope-intercept form (get $y$ by itself)
* Graph the line $y=m x+b$ as a solid or dashed line
- Solid if the inequality symbol is $\leq$ or $\geq$
- Dasbed if the inequality symbol is $<$ or $>$
* Pick a point to test that is NOT on the line
- If the point creates a true statement, shade the side of the line where the point is located
- If the point creates a false statement, shade the OTHER side of the line where the point is not


## Example

Graph the solution of the inequality $5 x+2 y<6$.


Graph the solution of the following inequalities.

3. $y<\frac{2}{3} x+2$

5. $y \leq 1$

2. $y \geq-\frac{3}{4} x-1$

4. $y \leq \frac{2}{5} x$

6. $3 x<-6$


9. $x+2 y \leq-8$

11. $4 y>-8$

8. $3 x+2 y>8$

10. $4 x+y \geq 0$

12. $x \geq 3$


