In your groups, please discuss section 2.7 and graph:


$$
y \leq \frac{-2}{3} x-5
$$

Plugin $(0,0)$ and determine if the statement is Tor.
Is

$$
\begin{aligned}
& 0 \leq-\frac{2}{3} \cdot 0-5 ? \\
& 0 \leq-5 ? \text { No. False. }
\end{aligned}
$$

Shade the side that dee NOT contain $(0,0)$.

$$
2 x+3 y>12
$$

$x$-int: $y=0 \quad y$-int: $x=0$
$2 x+3 \cdot 0=12 \quad 2.0+3 y=12$
$2 x=12$
$3 y=12$
$x=6$
$(6,0)$
$y=4$
$(0,4)$


Test $(0,0)$ :

$$
2 \cdot 0+3 \cdot 0>12 ?
$$

Is $0>12$ ? No! Shade the side that does not contain $(0,1)$.

$$
\begin{aligned}
& 2 x+3 y>12 \\
& 3 y>\frac{-2 x}{3}+\frac{12}{3} \\
& 3>\frac{-2}{3} x+4
\end{aligned}
$$

Test $(0,0)$
Is $0>\frac{-2}{3} .0+4$ ?

$$
0>4 ? \text { No. }
$$

$$
y>|x|-4
$$

Is $(0,0)$ in region? $0>|0|-4$ ?
$0>-4$ ? Yes! Shade the region that contains $(0,0)$.
P.98: 13-25 odd GRAPH PAPERuse SE!
Check os you go! p.100:1-54 $\rightarrow$ Ch 2 Review

