


Lines: Lesson 8

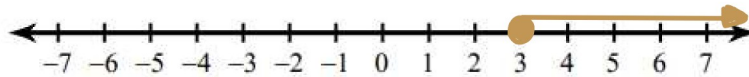
Linear Inequalities: Notes

answer key!

MATH  ALL

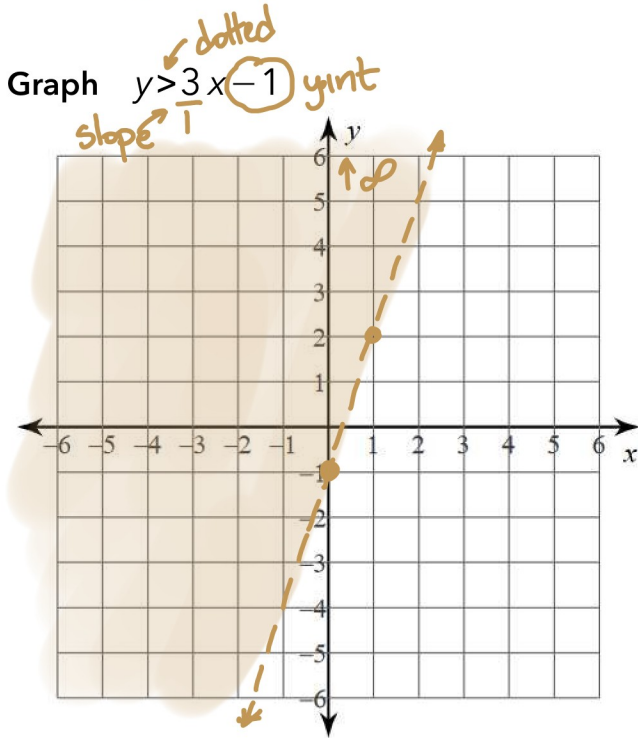
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Graph $x \geq 3$ on

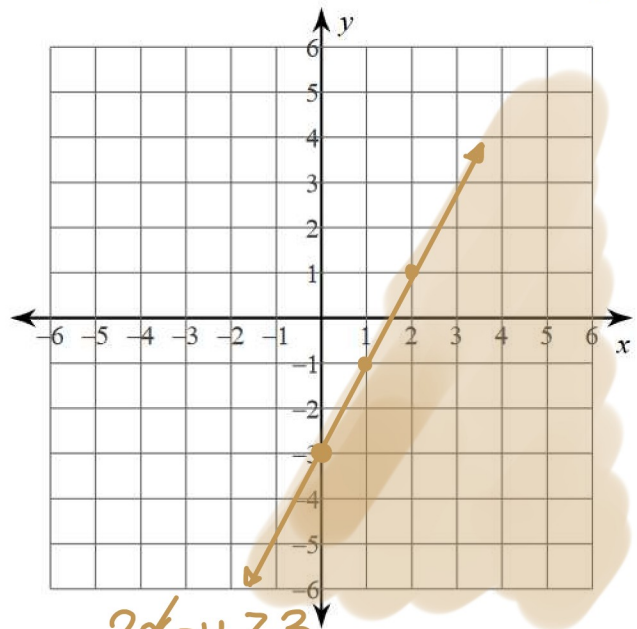


Steps to graph a linear inequality:

1. Turn the equation into $y = mx + b$. (Keep *inequality*.)
2. Plot the y intercept and next point (using slope)
3. Draw a dotted ($>$, $<$) or solid (\geq , \leq) line.
4. Shade above ($>$, \geq) or below ($<$, \leq) the line.



Graph $2x - y \geq 3$ (see work below)



$$\begin{array}{r}
 2x - y \geq 3 \\
 -2x \quad -2x \\
 \hline
 -y \geq -2x + 3 \\
 -1 \quad -1 \\
 \hline
 y \leq 2x - 3
 \end{array}$$