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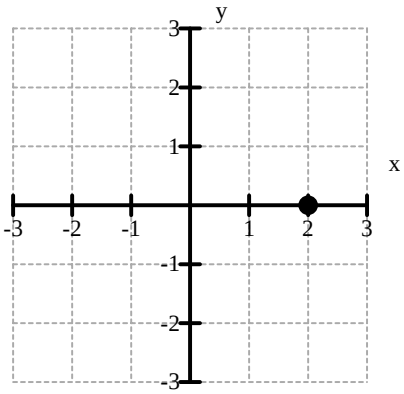
Find the solution to $x+2y>2$

1) Pretend it's an equation. This means write $x+2y=2$. Graph the equation using x and y intercepts.

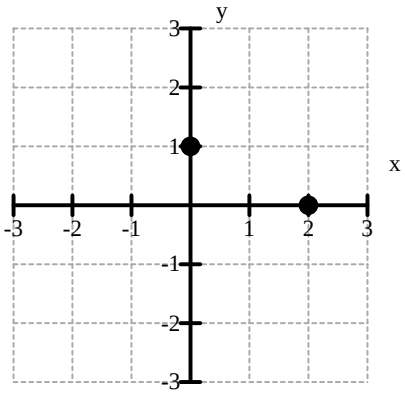
2) x intercept
set $y=0$
$x+2(0)=2$
$x=2$

Mark the point (2,0)

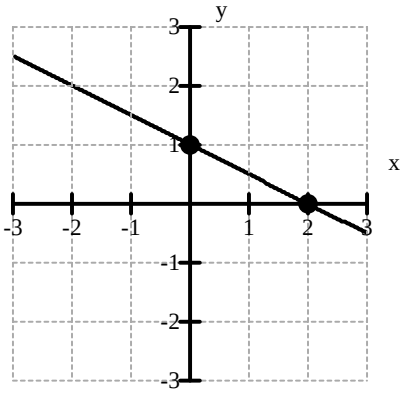


3) y intercept
set $x=0$
$0+2y=2$
$2y=2$
$y=1$

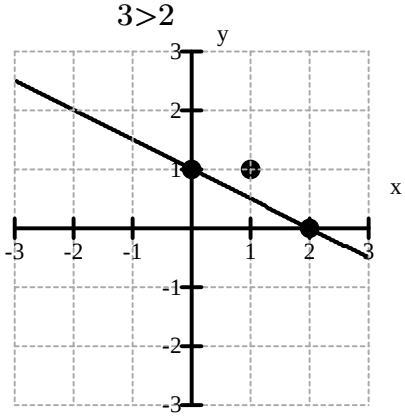
Mark the point (0,1)



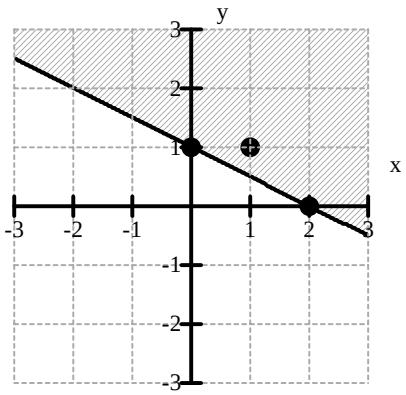
4) Draw a line through the points.



5) Now choose a point from above the line and check it in the inequality.
The point (1,1) is above the line, so we get
$1+2(1)>2$
$1+2>2$
$3>2$



6) Because the point (1,1) makes the inequality true, as shown in step 5), shade above the line.



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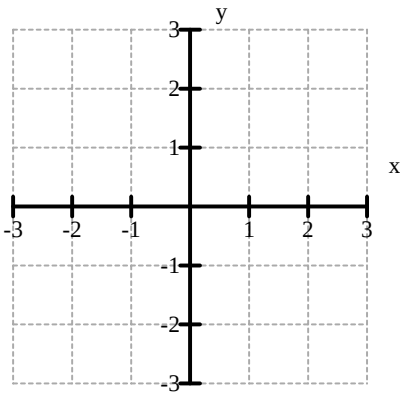
Find the solution to _____

1) Pretend it's an equation. This means write _____. Graph the equation using x and y intercepts.

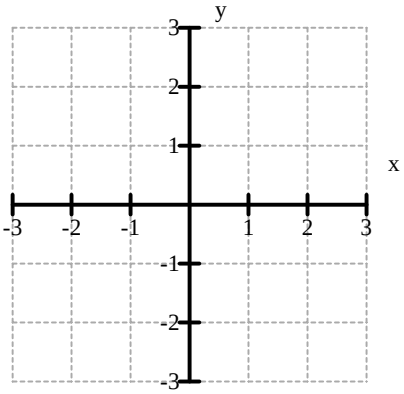
2) x intercept
set y=0

3) y intercept
set x=0

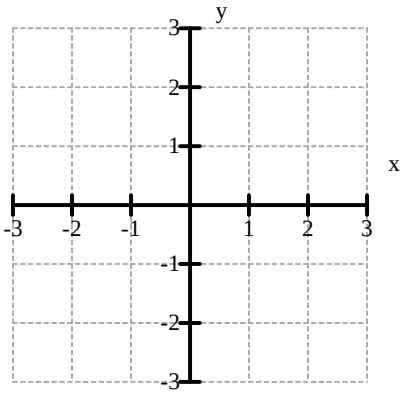
Mark the point (, 0)



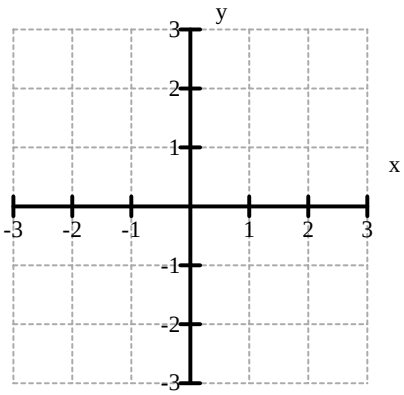
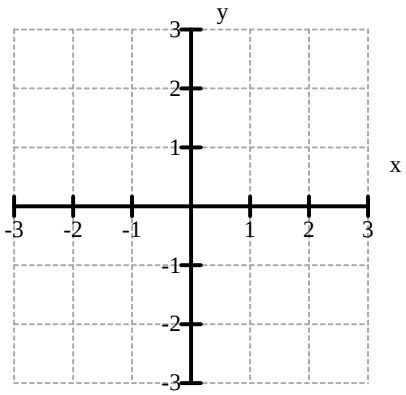
Mark the point (0,)



4) Draw a line through the points.



5) Now choose a point from above the line and check it in the inequality.
The point (,) is above the line, so we get



6) Because the point (,) makes the inequality _____, as shown in step 5), shade _____the line.