## Homework 2.2 Modeling Linear Inequalities

Graph the following linear inequalities using a number line and coordinate plane representations.

1. $y \leq-2$
2. $x>2$
3. $-2 \leq y$
4. $5>x$
[Number Line Representation]
$\square$
$\square$
$\qquad$
$\qquad$
[Coordinate Plane Representation]

5. $y<-3 x-6$
6. $3 x-5 y \geq-5$
7. $y>\frac{1}{4} x+2$
8. $6 x-5 y \leq$

20




9. $7 x+y<5$
10. $x-y>3$
11. $x+y \leq-1$
12. $y \geq 3 x-5$





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13. $y<\frac{5}{3} x$

14. $y>-\frac{1}{3} x+3$
[Graphical Representation]

15. $y=\frac{1}{5} x-4$
[Graphical Representation]

[Analytic Representation]

| Some example points of <br> solutions are: |
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|  |

[Analytic Representation]

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[Analytic Representation]

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[Verbal Representation]
$\square$
[Verbal Representation]

[Verbal Representation]
$\square$

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