## Practice for Lesson 5.3


For Exercises 1-8, state whether the table, graph, or equation

yes, bloc the rate of change (slope) stays constant.

$$
\frac{\Delta y}{\Delta x}=2
$$


3.
yes, because it is a
non-vertical line
4.

no, because thus is a
vertical line, where
the input value has more than one output value.
5. $y=4 x+7$
6. $6 x-3 y=12$
7. $x=12$
8. $y=2 x^{2}+4$
5) yes, equation is in $y=m x+b$ form where $m$ (slope) is 4 and $b(y$-int) is 7 .
6) yes, equation can be rewritten in $y=m x+b \quad(y=2 x-4)$ where $m=2$ and $b=-4$.
7) no, cannot be rewritten in $y=m x+b$ form (vertical line)
8) no, cannot be rewritten in $y=m x+6$ form (quadratic function - highest exponent For Exercises 9-12, choose the equation that best represents the
linear function described in the given table or graph.


$$
\begin{array}{ll}
\text { A. } y=-2 x+8 \\
\begin{array}{ll}
\text { B. } y=2 x+4 \\
\text { c. } y=2 x+8
\end{array} \quad \frac{\Delta y}{\Delta x}=\frac{8}{4}=2 & \text { A. } \begin{array}{l}
y=2 x+6 \\
\text { B. } y=-x+6 \\
\text { D. } y=-2 x+4
\end{array} \\
\text { C. } y=-2 x+6
\end{array} \quad \frac{\Delta y}{\Delta x}=\frac{-2}{2}=-1
$$

