## Reading Graphs by Inspection

## Algorithm

If the equation is in one variable, the graph will be a vertical or horizontal line.
a. if $x=c$, vertical line through $c$
b. if $\mathrm{y}=\mathrm{d}$, horizontal line through d

If the equation is in two variables,
a. in Slope Intercept Form, $\mathbf{y}=\mathrm{mx}+\mathrm{b}$, the graph passes through $b$ with slope $m$, or
b. in General Form, $\mathbf{A x}+\mathbf{B y}=\mathbf{C}$, the $\mathbf{x}$ intercept is $\mathbf{C} / \mathbf{A}$, the $\mathbf{y}$ intercept is $\mathbf{C} / \mathbf{B}$

Which of the following is the graph of $\mathrm{y}=-2$ ?


Which of the following is the graph of $2 \mathrm{x}=-10$ ?
a.


c.
d.



Which of the following is the graph of $\mathrm{y}=2 \mathrm{x}-3$ ?





Which of the following is the graph of $\mathrm{y}=\frac{1}{2} \mathrm{x}+4$ ?


