## Solutions to Warmup 2

1. Graph the function $y=3 x+1$

2. Graph the function $2 y+3=x+y+5$
$y+3=x+5$
$y=x+5-3$
$y=x+2$

3. Find the slope of the line through $(3,0)$ and $(6,3)$

$$
\text { slope }=\frac{\Delta y}{\Delta x}=\frac{\text { "rise" }}{\text { "run" }}=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}=\frac{3-0}{6-3}=\frac{3}{3}=1
$$

4. $15 \%$ of $80=0.15 \times 80=12$
5. $10=15 \%$ of what number? $10=0.15 x$, so $x=66.67$
6. Convert 0.01725 to a percent: $0.01725 \times 100=1.725 \%$
7. Match these equations with their graphs:

The first graph: $y=x+2$
The second graph: $\mathrm{y}=2-\mathrm{x}$

## Describe these polynomials

8. This is a second-degree polynomial, also called a quadratic.
9. This is a third-degree polynomial, also called a cubic.
10. This is a first-degree polynomial, also called a line.
