## Exercise 32

Graph $f(x)=0.5 x+10$. Pick a set of 5 ordered pairs using inputs $x=-2,1,5,6,9$ and use linear regression to verify that the function is a good fit for the data.

## Solution

Just plug in the given values of $x$ to the function.

$$
\begin{aligned}
f(-2) & =0.5(-2)+10=9 \\
f(1) & =0.5(1)+10=10.5 \\
f(5) & =0.5(5)+10=12.5 \\
f(6) & =0.5(6)+10=13 \\
f(9) & =0.5(9)+10=14.5
\end{aligned}
$$

Five ordered pairs are $(-2,9),(1,10.5),(5,12.5),(6,13)$, and $(9,14.5)$.


