1. A plant can manufacture 80 golf clubs per day for a daily cost of $\$ 7,647$. For a daily cost of $\$ 9,149$ the plant can manufacture 105 golf clubs per day. Assuming that daily cost and production are linearly related, find the function that will give the daily cost as a function of the number of clubs produced.
points: $(80,7647)$ and $(105,9149)$ and $m=\frac{9149-7647}{105-80}=60.08$ $y-9149=60.08(x-105)$
can also use linear regression: cost $y=60.08 x+2840.6$
2. The price-demand function for a product is given by $p=-0.045 x+345.6$, where $p$ is in dollars and $x$ is the number of items demanded. If the number of items demanded increased by 350 , how will this affect the price of the items?

Note: $-0.045 * 350=-15.75$

The price will decrease by $\$ 15.75$
3. Find the domain of the functions $f(x)=\frac{x+2}{2 x^{3}-9 x^{2}}$
$f(x)=\frac{x+2}{x^{2}(2 x-9)}$
domain is all real numbers except $x=0$ and $x=\frac{9}{2}$

