Find the equation and Domain and Range for each graph below:
(label each graph clearly!)


| A $\begin{aligned} & y=-b x^{2}(x+4)^{2} \\ & \text { sub } x=-2, y=-4 \\ & -4=-b .4 .4 \\ & b=1 / 4 \\ & y=\frac{-x^{2}(x+4)^{2}}{4} \end{aligned}$ <br> Domain =All $x$ values <br> Range $=$ All $y$ values | $\begin{aligned} & C \\ & y=-1 / 2 x+2 \\ & \text { D is } \quad-4 \leq x \leq 2 \\ & R \text { is } \quad 1 \leq y \leq 4 \end{aligned}$ | $\begin{aligned} & E \\ & y=x-5 \end{aligned}$ <br> $D$ is $2<x<5$ <br> $R$ is $-3 \leq y \leq 0$ |
| :---: | :---: | :---: |
| $\begin{aligned} & B \\ & y=b x^{2} \\ & \text { sub } x=2, y=1 \\ & 1=b .4 \\ & b=1 / 4 \\ & y=\frac{x^{2}}{4} \\ & D \text { is } \quad-4<x<2 \\ & R \text { is } \quad 0 \leq y \leq 4 \end{aligned}$ | $\begin{aligned} & D \\ & y=-b(x-3)^{2}(x-5) \\ & \text { sub } x=4, y=3 \\ & 3=-b(-1) \\ & b=3 \\ & y=-3(x-3)^{2}(x-5) \end{aligned}$ <br> Dis $-\infty<x<5$ R is $0 \leq y<\infty$ | $\begin{aligned} & F \\ & y=(x-3)^{2}-4 \\ & D \text { is } \quad 2<x<5 \\ & R \text { is } \quad-4 \leq y \leq 0 \end{aligned}$ |

