**4E Translating Graphs**

1. Sketch the following graphs:
2. $y=x^{2}$
3. $y=\left(x-2\right)^{2}$
4. $y=x^{2}+2$

x

y

1. Given that $f\left(x\right)=x^{3}$ and $g\left(x\right)=x\left(x-2\right)$,

sketch the graphs of $y=f\left(x+1\right)$ and $y=g(x+1)$

x

y

x

y

1. Given that $h\left(x\right)=\frac{1}{x}$, sketch the curve with equation $y=h\left(x\right)+1$, stating the equations of any asymptotes and intersections with the axes

x

y