1. Graph $y=x^{2}$ and $y=x^{4}$ over the interval $[-2,2]$ on the same graph. Label the points $x=1$ and $x=-1$ on the $x$-axis.
2. Graph $y=x^{3}$ and $y=x^{\frac{1}{3}}$ on adjacent graphs (i.e on two different graphs, one next to the other).
3. Graph $y=x^{3}, y=2 x^{3}$ on the same graph. Label which function is which, both for $x>0$ and for $x<0$.
4. Graph $y=-x^{2}, y=(x-1)^{2}$ and $y=(x-1)^{2}-1$ on adjacent graphs.
5. Graph $y=\sqrt{x}, y=\sqrt{x-1}$, and $y=\sqrt{-x}$ on adjacent graphs.
6. Graph $y=\sin (x)$ and $y=\cos (x)$ on the same graph over the interval $[0,4 \pi]$. Label the points $0, \pi / 2, \pi, 3 \pi / 2$ and $2 \pi$ on the $x$-axis.
7. Graph $y=\sin (2 x)$ and $y=2 \sin (x)$ over the interval $[0,2 \pi]$ on the same graph. Label the points $0, \pi / 2, \pi, 3 \pi / 2$ and $2 \pi$ on the $x$-axis.
8. Graph $-2 \cos (x)$ and $3-2 \cos (x)$ on adjacent graphs. Label the points $0, \pi / 2, \pi, 3 \pi / 2$ and $2 \pi$ on the $x$-axis.
9. Graph $y=\cos (x)$ and $y=|\cos (x)|$ over the interval $[0,2 \pi]$ on the same graph. Label the points $0, \pi / 2, \pi, 3 \pi / 2$ and $2 \pi$ on the $x$-axis.
10. Graph $y=3-2|\cos (x)|$.
11. Graph $y=\tan (x)$ and $y=\tan \left(x-\frac{\pi}{2}\right)$ over the interval $[0,2 \pi]$ on adjacent graphs.
12. Graph $y=\sin \left(x^{2}\right)$ and $y=\sin (1 / x)$ on adjacent graphs.
