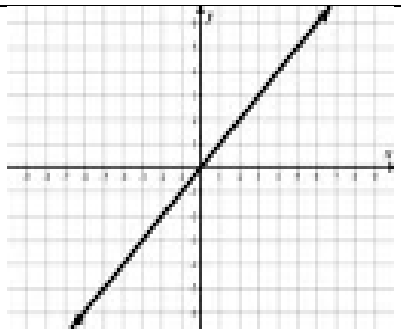
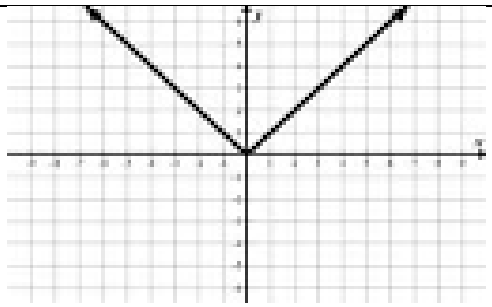
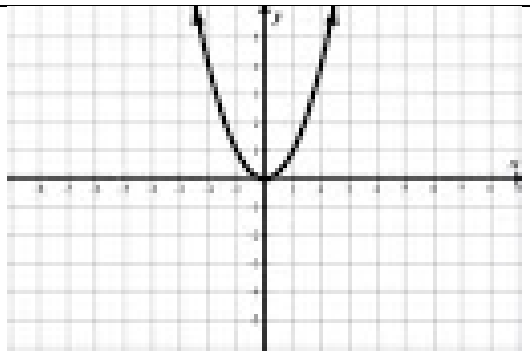
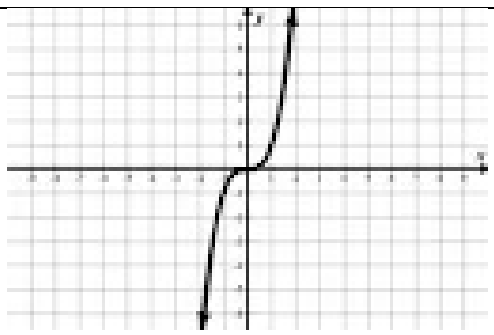
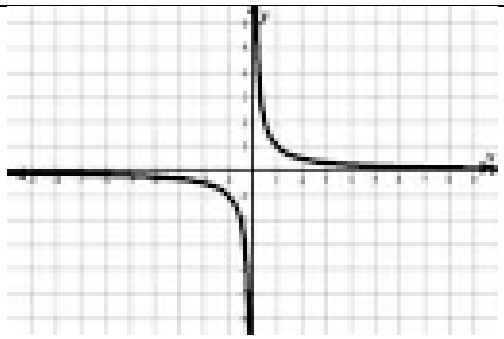
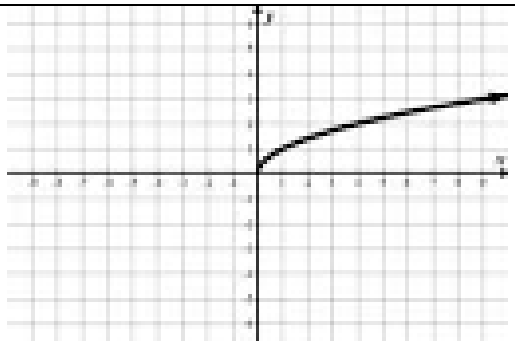
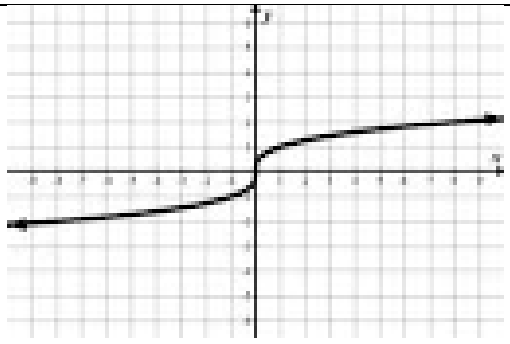
Linear $y=x$ **General Form** $y=mx+b$ Domain: $(-\infty,\infty)$ Range: $(-\infty,\infty)$		Critical points: $(-1,-1)$ $(0,0)$ $(1,1)$
Absolute Value $y=\|x\|$ **General Form** $y=a\|b(x-h)\|+k$ Domain: $(-\infty,\infty)$ Range: $[0,\infty)$		Critical points: $(-1,1)$ $(0,0)$ $(1,1)$
Quadratic $y=x^2$ **General Form** $y=a\,(b(x-h))^2+k$ Domain: $(-\infty,\infty)$ Range: $[0,\infty)$		Critical points: $(-1,1)$ $(0,0)$ $(1,1)$
Cubic $y=x^3$ **General Form** $y=a\,(b(x-h))^3+k$ Domain: $(-\infty,\infty)(-\infty,\infty)$ Range: $(-\infty,\infty)(-\infty,\infty)$		Critical points: $(-1,-1)$ $(0,0)$ $(1,1)$

Rational $y=\frac{1}{x}$ **General Form** $y=\frac{a}{(x-h)}+k$ Domain: $(-\infty,0)\cup(0,\infty)$ Range: $(-\infty,0)\cup(0,\infty)$ Asymptotes: $y=0, x=0$		Critical points: $(-1,-1)$, $(1,1)$
Square Root $y=\sqrt[2]{x}$ **General Form** $y=a\sqrt{\frac{x-h}{b}}+k$ Domain: $[0,\infty)[0,\infty)$ Range: $[0,\infty)[0,\infty)$		Critical points: $(0,0)$ $(1,1)$ $(4,2)$
Cube Root $y=\sqrt[3]{x}$ **General Form** $y=a\sqrt[3]{\frac{x-h}{b}}+k$ Domain: $(-\infty,\infty)(-\infty,\infty)$ Range: $(-\infty,\infty)(-\infty,\infty)$		Critical points: $(-1,-1)$ $(0,0)$ $(1,1)$