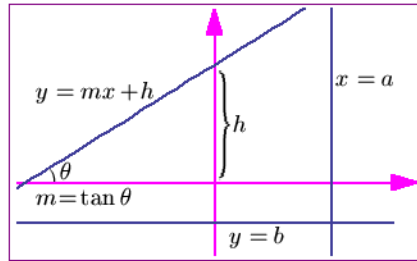
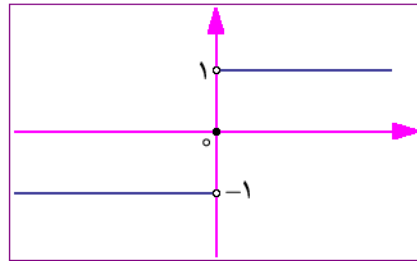


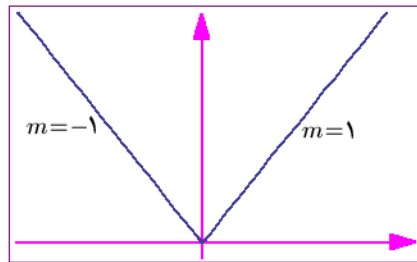
توابع $mx + h$, $sgn(x)$, $|x|$, $|x - a| + |x - b|$, $|x - a| - |x - b|$, $[x]$, $x - [x]$



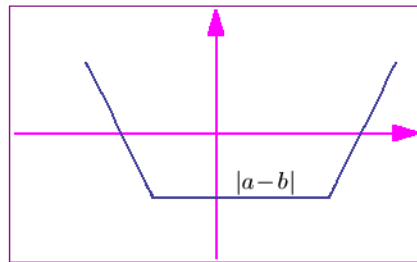
$y = mx + h$



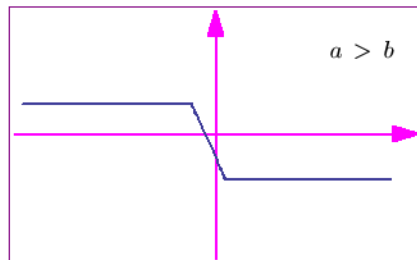
$y = sgn(x)$



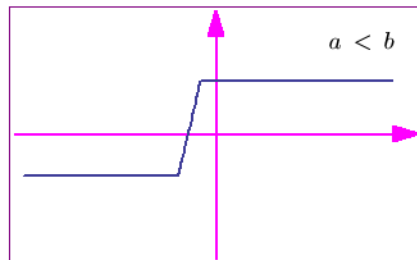
$y = |x|$



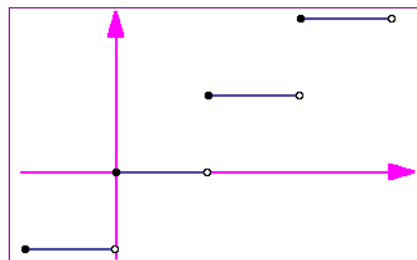
$y = |x - a| + |x - b|$



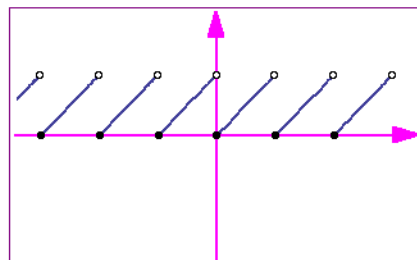
$y = |x - a| - |x - b|$



$y = |x - a| - |x - b|$



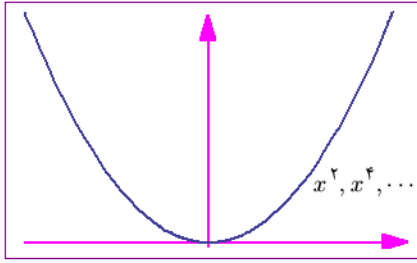
$y = [x]$



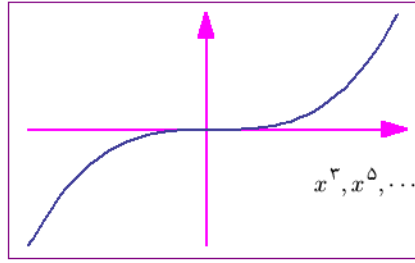
$y = x - [x]$

شکل ۱.۲۰ توابع خطی

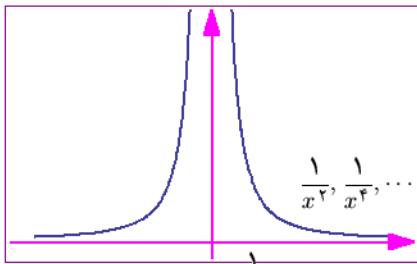
توابع $x^{\tau_n}, x^{\tau_{n+1}}, \frac{1}{x^{\tau_n}}, \frac{1}{x^{\tau_{n+1}}}, \sqrt[\tau_n]{x}, \sqrt[\tau_{n+1}]{x}, \frac{1}{\sqrt[\tau_n]{x}}, \frac{1}{\sqrt[\tau_{n+1}]{x}}$



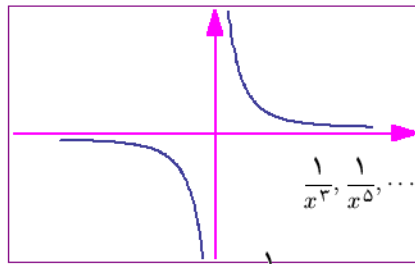
$$y = x^{\tau_n}$$



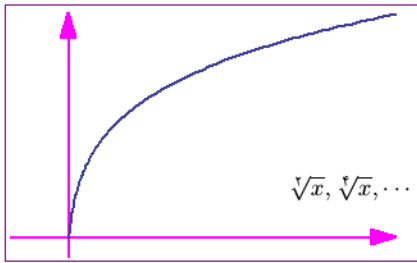
$$y = x^{\tau_{n+1}}$$



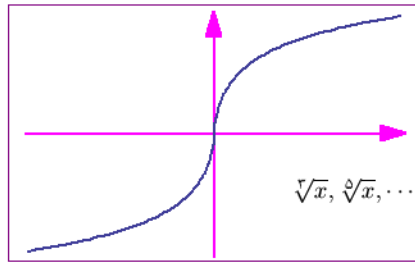
$$y = \frac{1}{x^{\tau_n}}$$



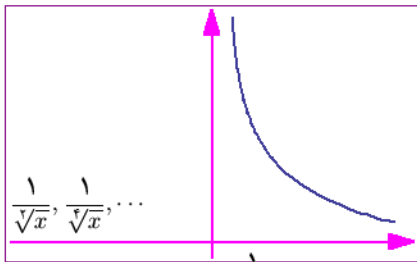
$$y = \frac{1}{x^{\tau_{n+1}}}$$



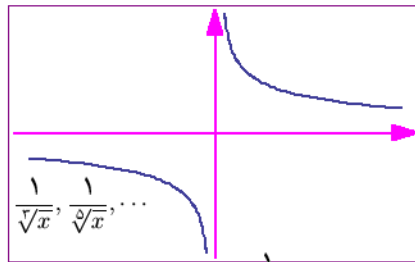
$$y = \sqrt[\tau_n]{x}$$



$$y = \sqrt[\tau_{n+1}]{x}$$



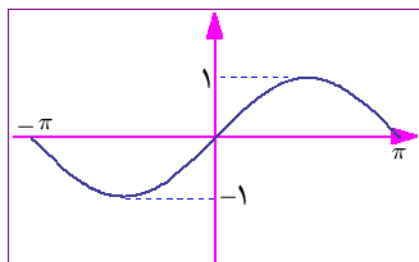
$$y = \frac{1}{\sqrt[\tau_n]{x}}$$



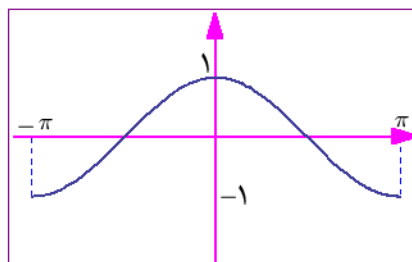
$$y = \frac{1}{\sqrt[\tau_{n+1}]{x}}$$

شکل ۲.۲۰ توابع نمائی و معکوس آنها

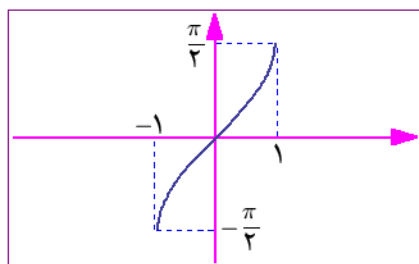
توابع $\sin x, \cos x, \arcsin x, \arccos x, \tan x, \cot x, \arctan x, \operatorname{arccot} x$



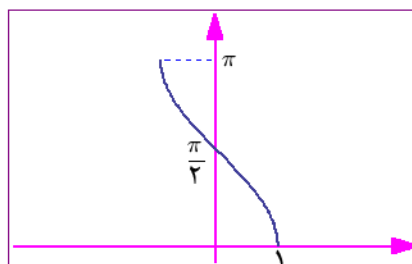
$y = \sin x$



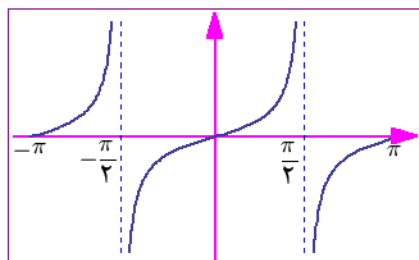
$y = \cos x$



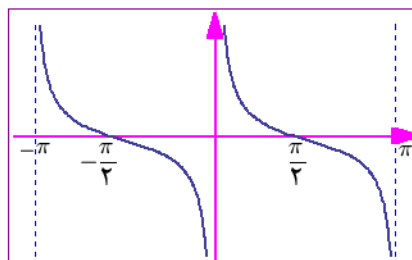
$y = \arcsin x$



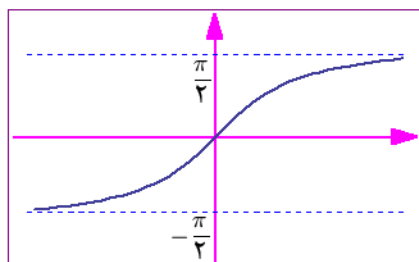
$y = \arccos x$



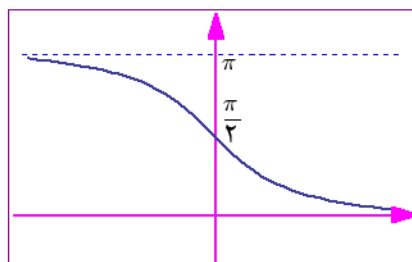
$y = \tan x$



$y = \cot x$



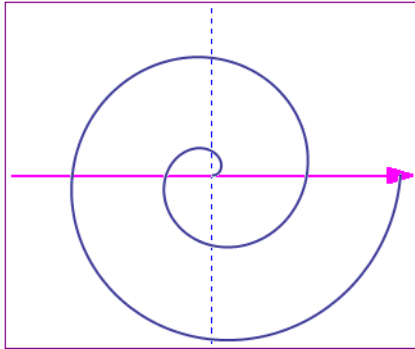
$y = \arctan x$



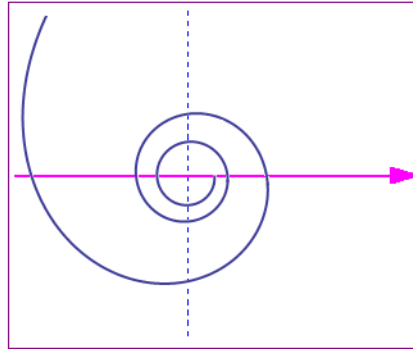
$y = \operatorname{arccot} x$

شکل ۳.۲۰ توابع مثلثاتی

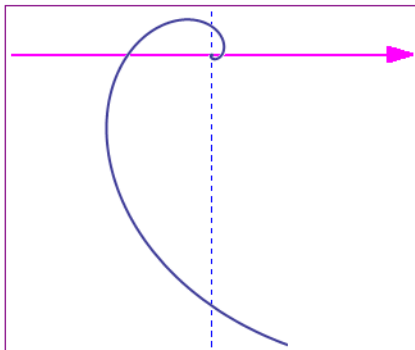
توابع $r = a\theta$, $r = \frac{a}{\theta}$, $r = a^\theta$, $(r - a)^2 = b\theta$, $r = a \pm a \sin \theta$, $r = a \pm b \sin \theta$



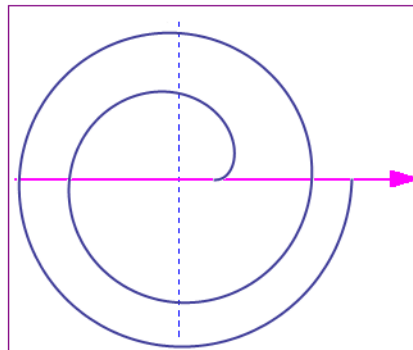
مارپیچ ارشمیدسی $r = a\theta$



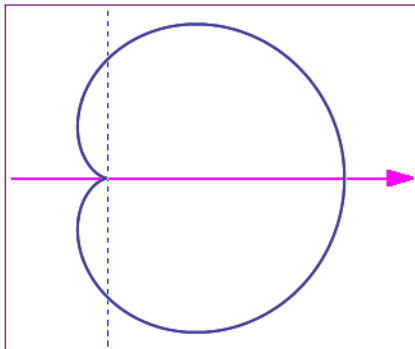
مارپیچ هذلولوی $r = \frac{a}{\theta}$



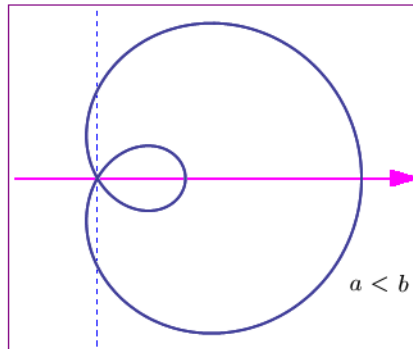
مارپیچ لگاریتمی $r = a^\theta$



مارپیچ سهموی $(r - a)^2 = b\theta$



دلگون $r = a \pm a \sin \theta$



لیماسون تک حلقه‌ای $r = a \pm b \sin \theta$

شکل ۴.۲۰ منحنی‌های قطبی