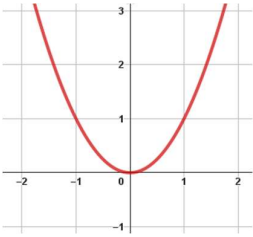
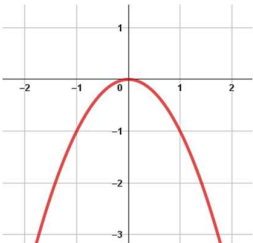
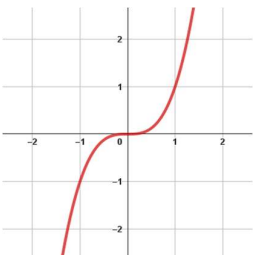
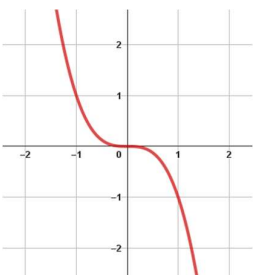
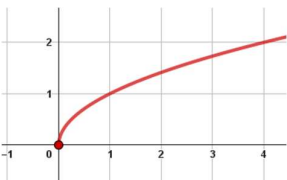
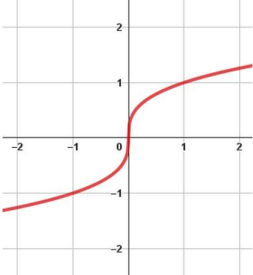
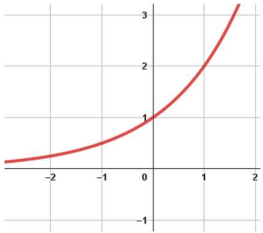
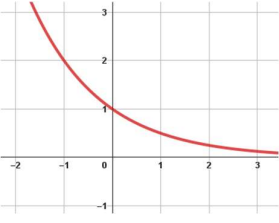
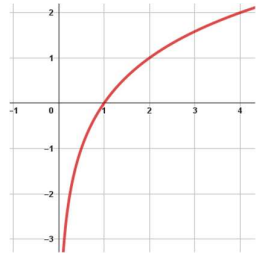
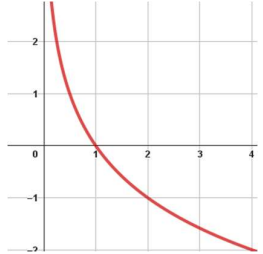
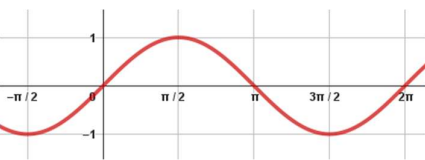
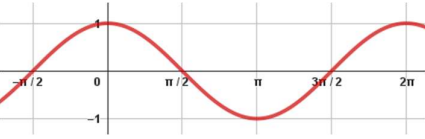


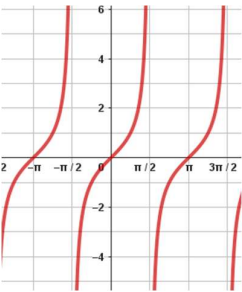
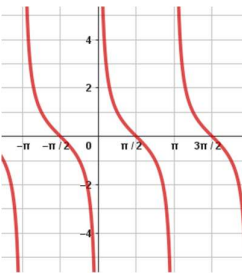
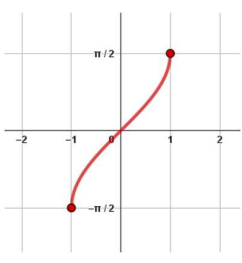
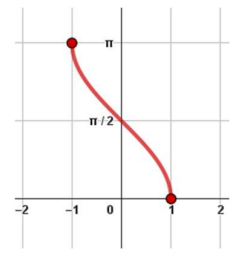
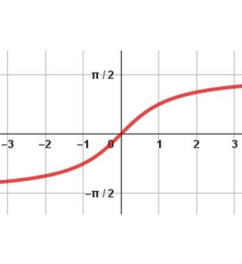
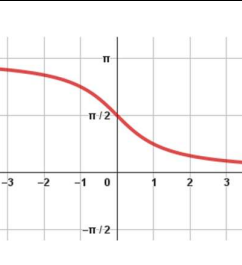
MAPPA: *limiti delle funzioni elementari*

$y = ax^n$ <p>funzione potenza con: <math>a &gt; 0 ; n</math> pari</p> <p>Dominio: <math>D = R = ]-\infty; +\infty[</math></p>		$\lim_{x \rightarrow -\infty} (ax^n) = +\infty$ <hr/> $\lim_{x \rightarrow 0} (ax^n) = 0^+$ <hr/> $\lim_{x \rightarrow +\infty} (ax^n) = +\infty$
$y = ax^n$ <p>funzione potenza con: <math>a &lt; 0 ; n</math> pari</p> <p>Dominio: <math>D = R = ]-\infty; +\infty[</math></p>		$\lim_{x \rightarrow -\infty} (ax^n) = -\infty$ <hr/> $\lim_{x \rightarrow 0} (ax^n) = 0^-$ <hr/> $\lim_{x \rightarrow +\infty} (ax^n) = -\infty$
$y = ax^n$ <p>funzione potenza con: <math>a &gt; 0 ; n</math> dispari</p> <p>Dominio: <math>D = R = ]-\infty; +\infty[</math></p>		$\lim_{x \rightarrow -\infty} (ax^n) = -\infty$ <hr/> $\lim_{x \rightarrow 0} (ax^n) = 0$ <hr/> $\lim_{x \rightarrow +\infty} (ax^n) = +\infty$
$y = ax^n$ <p>funzione potenza con: <math>a &lt; 0 ; n</math> dispari</p> <p>Dominio: <math>D = R = ]-\infty; +\infty[</math></p>		$\lim_{x \rightarrow -\infty} (ax^n) = +\infty$ <hr/> $\lim_{x \rightarrow 0} (ax^n) = 0$ <hr/> $\lim_{x \rightarrow +\infty} (ax^n) = -\infty$
$y = \sqrt[n]{x}$ <p>funzione radice con: <math>n</math> pari</p> <p>Dominio: <math>D = [0; +\infty[</math></p>		$\lim_{x \rightarrow -\infty} (\sqrt[n]{x}) = \text{non esiste}$ <hr/> $\lim_{x \rightarrow 0^+} (\sqrt[n]{x}) = 0^+$ <hr/> $\lim_{x \rightarrow +\infty} (\sqrt[n]{x}) = +\infty$
$y = \sqrt[n]{x}$ <p>funzione radice con: <math>n</math> dispari</p> <p>Dominio: <math>D = R = ]-\infty; +\infty[</math></p>		$\lim_{x \rightarrow -\infty} (\sqrt[n]{x}) = -\infty$ <hr/> $\lim_{x \rightarrow 0} (\sqrt[n]{x}) = 0$ <hr/> $\lim_{x \rightarrow +\infty} (\sqrt[n]{x}) = +\infty$

MAPPA: *limiti delle funzioni elementari*

$y = a^x$ funzione esponenziale con: $a > 1$ Dominio: $D = R = ]-\infty; +\infty[$		$\lim_{x \rightarrow -\infty} (a^x) = 0^+$
		$\lim_{x \rightarrow 0} (a^x) = 1$
		$\lim_{x \rightarrow +\infty} (a^x) = +\infty$
$y = a^x$ funzione esponenziale con: $0 < a < 1$ Dominio: $D = R = ]-\infty; +\infty[$		$\lim_{x \rightarrow -\infty} (a^x) = +\infty$
		$\lim_{x \rightarrow 0} (a^x) = 1$
		$\lim_{x \rightarrow +\infty} (a^x) = 0^+$
$y = \log_a(x)$ funzione logaritmica con: $a > 1$ Dominio: $D = ]0; +\infty[$		$\lim_{x \rightarrow -\infty} (\log_a x) = \text{non esiste}$
		$\lim_{x \rightarrow 0^+} (\log_a x) = -\infty$
		$\lim_{x \rightarrow +\infty} (\log_a x) = +\infty$
$y = \log_a(x)$ funzione logaritmica con: $0 < a < 1$ Dominio: $D = ]0; +\infty[$		$\lim_{x \rightarrow -\infty} (\log_a x) = \text{non esiste}$
		$\lim_{x \rightarrow 0^+} (\log_a x) = +\infty$
		$\lim_{x \rightarrow +\infty} (\log_a x) = -\infty$
$y = \sin(x)$ funzione seno Dominio: $D = R = ]-\infty; +\infty[$		$\lim_{x \rightarrow \pm\infty} (\sin x) = \text{non esiste}$
		$\lim_{x \rightarrow 0} (\sin x) = 0$
		$\lim_{x \rightarrow \frac{\pi}{2}} (\sin x) = 1$
$y = \cos(x)$ funzione coseno Dominio: $D = R = ]-\infty; +\infty[$		$\lim_{x \rightarrow \pm\infty} (\cos x) = \text{non esiste}$
		$\lim_{x \rightarrow 0} (\cos x) = 1$
		$\lim_{x \rightarrow \frac{\pi}{2}} (\cos x) = 0$

MAPPA: limiti delle funzioni elementari

<p><math>y = \tan(x)</math> funzione tangente Dominio: <math>D = R - \left\{ \frac{\pi}{2} + k\pi \right\}, k \in \mathbb{Z}</math></p>		<p><math>\lim_{x \rightarrow 0} (\tan x) = 0</math></p> <p><math>\lim_{x \rightarrow \frac{\pi}{2}^-} (\tan x) = +\infty</math></p> <p><math>\lim_{x \rightarrow \frac{\pi}{2}^+} (\tan x) = -\infty</math></p>
<p><math>y = \cotg(x)</math> funzione cotangente Dominio: <math>D = R - \{k\pi\}, k \in \mathbb{Z}</math></p>		<p><math>\lim_{x \rightarrow 0^-} (\cotg x) = -\infty</math></p> <p><math>\lim_{x \rightarrow 0^+} (\cotg x) = +\infty</math></p> <p><math>\lim_{x \rightarrow \frac{\pi}{2}} (\cotg x) = 0</math></p>
<p><math>y = \arcsin(x)</math> funzione arcseno Dominio: <math>D = [-1; +1]</math></p>		<p><math>\lim_{x \rightarrow -1^+} (\arcsin x) = -\frac{\pi}{2}</math></p> <p><math>\lim_{x \rightarrow 0} (\arcsin x) = 0</math></p> <p><math>\lim_{x \rightarrow 1^-} (\arcsin x) = \frac{\pi}{2}</math></p>
<p><math>y = \arccos(x)</math> funzione arcocoseno Dominio: <math>D = [-1; +1]</math></p>		<p><math>\lim_{x \rightarrow -1^+} (\arccos x) = \pi</math></p> <p><math>\lim_{x \rightarrow 0} (\arccos x) = \frac{\pi}{2}</math></p> <p><math>\lim_{x \rightarrow 1^-} (\arccos x) = 0</math></p>
<p><math>y = \arctan(x)</math> funzione arcotangente Dominio: <math>D = R = ]-\infty; +\infty[</math></p>		<p><math>\lim_{x \rightarrow -\infty} (\arctan x) = -\frac{\pi}{2}</math></p> <p><math>\lim_{x \rightarrow 0} (\arctan x) = 0</math></p> <p><math>\lim_{x \rightarrow +\infty} (\arctan x) = \frac{\pi}{2}</math></p>
<p><math>y = \operatorname{arccotg}(x)</math> funzione arcotangente Dominio: <math>D = R = ]-\infty; +\infty[</math></p>		<p><math>\lim_{x \rightarrow -\infty} (\operatorname{arccotg} x) = \pi</math></p> <p><math>\lim_{x \rightarrow 0} (\operatorname{arccotg} x) = \frac{\pi}{2}</math></p> <p><math>\lim_{x \rightarrow +\infty} (\operatorname{arccotg} x) = 0^+</math></p>