

**NOM :**

**Prénom :**

**Test « Limites usuelles »**

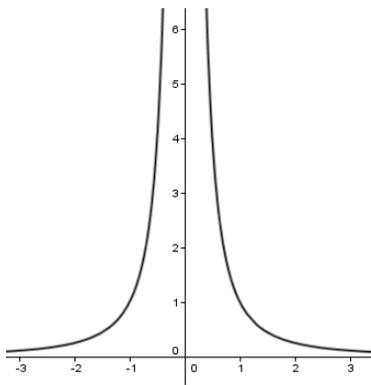
Voici 8 représentations graphiques. Reconnâître celles qui correspondent aux fonctions suivantes :

La courbe de  $x \mapsto x^2$  est la courbe n° .....

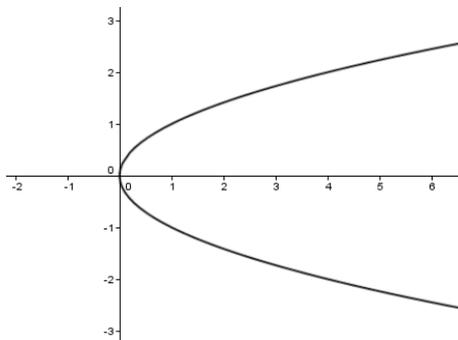
La courbe de  $x \mapsto x^3$  est la courbe n° .....

La courbe de  $x \mapsto \frac{1}{x}$  est la courbe n° .....

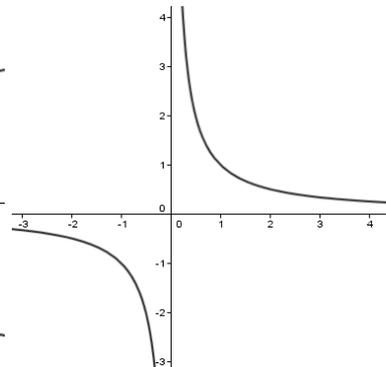
La courbe de  $x \mapsto \sqrt{x}$  est la courbe n° .....



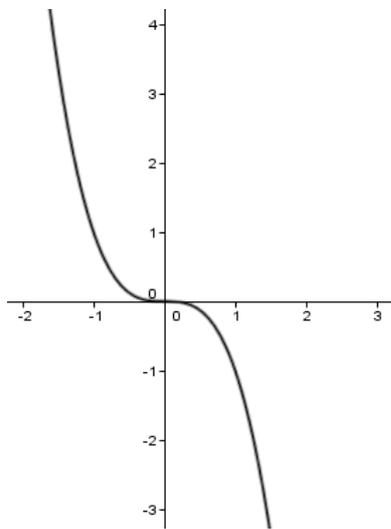
**n° 1**



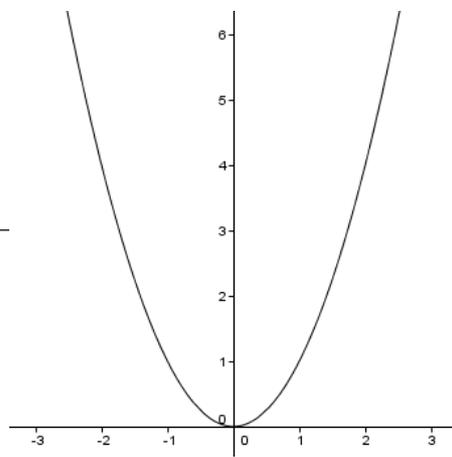
**n° 2**



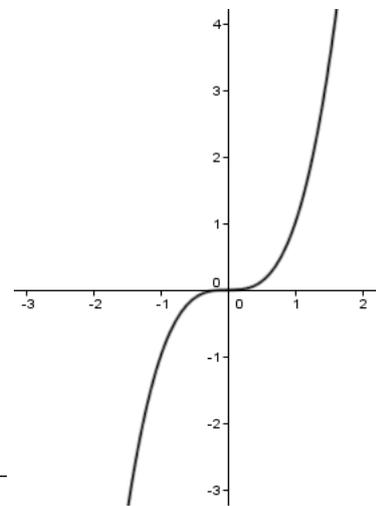
**n° 3**



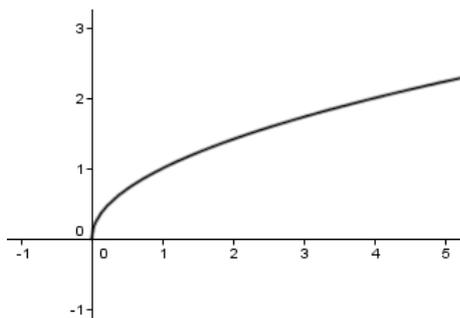
**n° 4**



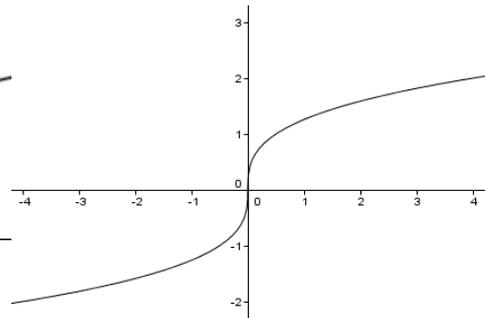
**n° 5**



**n° 6**



**n° 7**



**n° 8**

Indiquer les limites des fonctions usuelles citées.

$$\lim_{x \rightarrow -\infty} x^2 = \dots\dots$$

$$\lim_{x \rightarrow +\infty} x^2 = \dots\dots$$

$$\lim_{x \rightarrow -\infty} x^3 = \dots\dots$$

$$\lim_{x \rightarrow +\infty} x^3 = \dots\dots$$

$$\lim_{x \rightarrow 0^-} \frac{1}{x} = \dots\dots$$

$$\lim_{x \rightarrow 0^+} \frac{1}{x} = \dots\dots$$

$$\lim_{x \rightarrow -\infty} \frac{1}{x} = \dots\dots$$

$$\lim_{x \rightarrow +\infty} \frac{1}{x} = \dots\dots$$

$$\lim_{x \rightarrow +\infty} \sqrt{x} = \dots\dots$$