

**Exercise 3**

Find the limit.

$$\lim_{x \rightarrow 1} e^{x^3 - x}$$

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**Solution**

To determine this limit, plug in 1 for  $x$ .

$$\begin{aligned}\lim_{x \rightarrow 1} e^{x^3 - x} &= e^{1^3 - 1} \\ &= e^{1 - 1} \\ &= e^0 \\ &= 1\end{aligned}$$