Exercise 1: real-valued functions

Say which of the following curves represent a real-valued function in one real variable.





No!





Yes!









Yes!









Yes!





No!



No!

Yes!



No!

Yes!

Yes!

Exercise 2: injective functions

Say which of the following curves represent an injective function.



${\sf Curve}\ 1$







Function: Yes. Injective function: No!



2. 8 -1--2-Function: No. ∜ Injective function: No!





Function: Yes. Injective function: Yes!





Function: Yes. Injective function: No!





Function: Yes. Injective function: No!









Function: No. \Downarrow Injective function: No!

Function: Yes. Injective function: No!



Function: No. ↓ Injective function: No!

Function: Yes. Injective function: No!

Function: Yes. Injective function: Yes!