

**Exercise 14**

For the following exercises, points  $P(-1, -1)$  and  $Q(x, y)$  are on the graph of the function  $f(x) = \frac{1}{x}$ .

Use the values in the right column of the table in the preceding exercise to guess the value of the slope of the line tangent to  $f$  at  $x = -1$ .

---

**Solution**

The slope of the tangent line to  $f$  at  $x = -1$  is  $-1$ .