

Graphical Exercises

- Section 1.1

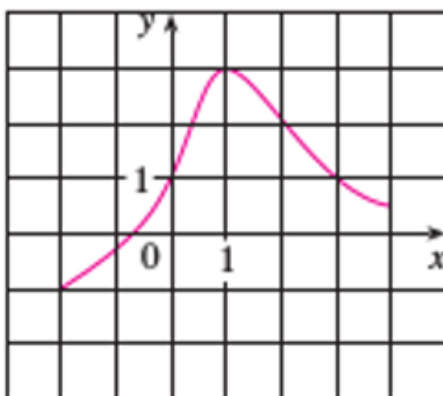
2. If

$$f(x) = \frac{x^2 - x}{x - 1} \quad \text{and} \quad g(x) = x$$

is it true that $f = g$?

3. The graph of a function f is given.

- State the value of $f(1)$.
- Estimate the value of $f(-1)$.
- For what values of x is $f(x) = 1$?
- Estimate the value of x such that $f(x) = 0$.
- State the domain and range of f .
- On what interval is f increasing?



• Section 1.3

3. The graph of $y = f(x)$ is given. Match each equation with its graph and give reasons for your choices.

(a) $y = f(x - 4)$

(b) $y = f(x) + 3$

(c) $y = \frac{1}{3}f(x)$

(d) $y = -f(x + 4)$

(e) $y = 2f(x + 6)$

