Calculus, Metric Version (9th Edition) by James Stewart, Daniel Clegg, and Saleem Watson

Exercise No. 1

1. Let f be the function whose graph is given

- **(a)** Estimate the value of $f(2)$.
- **(b)** Estimate the values of x such that $f(x) = 3$.
- **(c)** State the domain of f.
- **(d)** State the range of f.
- **(e)** On what interval is f increasing?
- **(f)** Is f even, odd, or neither even nor odd? Explain

Answer to Exercise No. 1

1.

Exercise No. 2

2. Determine whether each curve is the graph of a function of x. If it is, state the domain and range of the function.

Answer to Exercise No. 2

2.

Exercise No. 3

3. If $f(x) = x^2 - 2x + 3$, evaluate the difference quotient

$$\frac{f(a+h) - f(a)}{h}.$$

Answer to Exercise No. 3

3.

Exercise No. 4

4. Sketch a rough graph of the yield of a crop as a function of the amount of fertilizer used.

Answer to Exercise No. 4

4.

Exercise No. 5–8

Answer to Exercise No. 5–8

Exercise No.

Answer to Exercise No.