

# Chapter 1

## Basic Classes of Functions

### Checkpoint Solution

#### Checkpoint 1.9: Finding the Slope and Equations of Lines

##### Instruction

Consider the line passing through points  $(-3, 2)$  and  $(1, 4)$ .

- (a) Find the slope of the line.
- (b) Find an equation of that line in point-slope form.
- (c) Find an equation of that line in slope-intercept form.

##### Solution

- (a) The slope of the line is

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - 2}{1 - (-3)} = \frac{4 - 2}{1 + 3} = \frac{2}{4} = \frac{1}{2}.$$

##### Answer

- (a)  $m = \frac{1}{2}$