

Mathematics 110 — Assignment 5

Reading: Lecture Notes Chapter 4

Question 1.

Solve the following equations:

(a) $2x - 7 = 0$,

(b) $x^2 + 5x + 4 = 0$,

(c) $x^{-3/2} = 4$,

(d) $3e^{2x} = 2$,

(e) $4 \ln x + 3 = 0$.

Question 2.

Find the point of intersection of the straight lines

$$y = 2x + 3 \quad \text{and} \quad y = -x + 5.$$

Question 3.

Find the points of intersection of the straight line

$$y = x + 3$$

with the quadratic

$$y = x^2 + 2x + 2.$$