

Solution to Homework 6

Question. What is the distance $D(a, b)$ between the points $a = (1, 2)$ and $b = (6, -10)$?

Solution.

$$D(a, b) = \sqrt{(1 - 6)^2 + (2 - (-10))^2} = \sqrt{5^2 + 12^2} = \sqrt{25 + 144} = \sqrt{169} = 13.$$