

1) Solve the following inequations

i) $] -9, \infty[$ $(-9, \infty)$

iii) $] -\infty, -6]$ $(-\infty, -6]$

ii) $] -\infty, 9[$ $(-\infty, 9)$

iv) $[\frac{46}{9}, \infty[$ $[\frac{46}{9}, \infty)$

2) Solve the following inequations

i) $\mathbb{R} \setminus]3, 4[$ $(-\infty, 3] \cup [4, \infty)$

iv) $] -\infty, 3[$

ii) $\mathbb{R} \setminus]\frac{3}{2}, 4[$ $(-\infty, \frac{3}{2}] \cup [4, \infty)$

v) $] -\infty, 3[$

iii) $[-2, 3] \cup [4, \infty[$

vi) $\{3, 4\}$

3) Solve the following inequations

i) $] -\infty, \frac{7-\sqrt{5}}{2}] \cup [\frac{7+\sqrt{5}}{2}, \infty[$

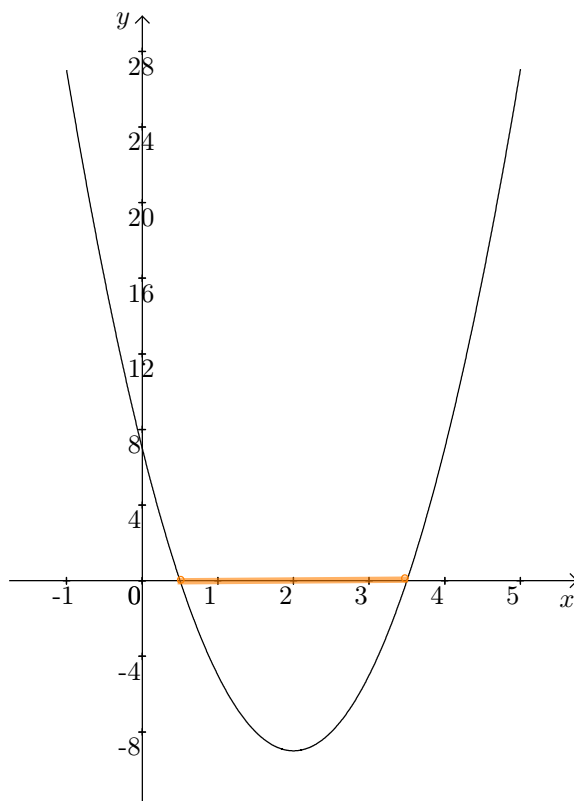
ii) $] -\infty, 3 - \sqrt{3}] \cup [3 + \sqrt{3}, \infty[= \mathbb{R} \setminus]3 - \sqrt{3}, 3 + \sqrt{3}[$ $\mathbb{R} \setminus (3 - \sqrt{3}, 3 + \sqrt{3})$

4) Solve the following inequations

i) $] -4, 2[\cup]3, 10[$ $(-4, 2) \cup (3, 10)$

ii) $] -\infty, 2[\cup]3, 4[\cup]10, \infty[$

5) For what values of x the curve is under the x - axis?



that is for $x \in]\frac{1}{2}, \frac{7}{2}[$