



1. 1.1 4; 100

1.2 $-\sqrt{4}; 4; 100; -\frac{12}{3}; 0$

1.3 $-\sqrt{4}; 4; -\frac{8}{3}; -2, (12); -3,5; 100; -\frac{12}{3}; 0$

1.4 $\pi; \sqrt{7}$

1.5 Todos

1.6 $-\frac{8}{3}; -2(12); -3,5$

2. 2.1 $7\sqrt{3} - \sqrt{7}$

2.2 $6\pi + 3$

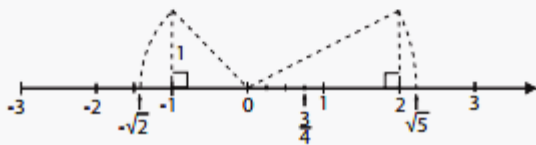
2.3 $2\sqrt{7} - 11$

2.4 $\sqrt{5} + 15$

3. $\sqrt{15}$

4. $-14 < \sqrt{12} - 17 < -13$

5.



6. Não

7.

Intervalo	Representação geométrica	Representação por uma condição
$[-4, +\infty[$		$\{x \in \mathbb{R}: x \geq -4\}$
$] -2, 1]$		$\{x \in \mathbb{R}: -2 < x \leq 1\}$
$[-\frac{1}{2}, 4]$		$\{x \in \mathbb{R}: -\frac{1}{2} \leq x \leq 4\}$
$[-2, 3; +\infty[$		$\{x \in \mathbb{R}: x \geq -2, 3\}$
$] -3, 2[$		$\{x \in \mathbb{R}: -3 < x < 2\}$
$\{-1, 0, 1, 2, 3\}$		$\{x \in \mathbb{Z}: -\frac{3}{2} < x \leq 3\}$

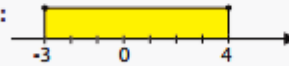
8. 8.1 C.S. = $]\frac{5}{4}, +\infty[$

8.2 C.S. = $[1, +\infty[$

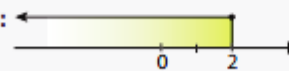
8.3 C.S. = $] -\infty, 1]$

8.4 C.S. = $] -\infty, 4]$

9. 9.1 A:



B:



C:



9.2 a) $[-3, 2]$ b) $[-3, +\infty[$ c) $] -1, 2]$ d) \mathbb{R}