

## BÀI TẬP GIÚP GIỎI TOÁN LỚP 10

**Câu 1.** Vẽ trục và tìm:

1.  $(-8; -7) \cup [-10; 13]$
2.  $[-14; 1] \cup [-9; 7)$
3.  $(-8; 12) \cup [-12; 13)$
4.  $[-7; -6] \cup (-12; 14]$
5.  $[-10; 4) \cup [3; 5)$
6.  $[-14; 5) \cup [-3; 9)$
7.  $[-14; -13] \cup [-13; -5)$
8.  $[-1; 8) \cup [-2; 11)$
9.  $(-8; 0) \cup [-9; 1]$
10.  $(-11; 2) \cup [-11; 2)$
11.  $[-13; -11] \cup (-12; 11)$
12.  $(-11; 9] \cup (5; 14]$
13.  $(-6; 13) \cup (-2; 14]$
14.  $[-13; 2] \cup (-1; 13]$
15.  $[-14; -9] \cup (-11; 4)$
16.  $[-10; 5) \cup [4; 13)$
17.  $(1; 4] \cup (-1; 14]$
18.  $(-1; 6) \cup [-6; 11]$
19.  $[-8; 1] \cup (-11; 3)$
20.  $[6; 10) \cup [-2; 12]$
21.  $[-3; 10] \cup (8; +\infty)$
22.  $[-2; 4) \cup [-8; 5]$
23.  $[-12; 0] \cup [-6; 3]$
24.  $[-13; 10) \cup (-8; 14]$
25.  $(-13; -2) \cup [-6; 2]$
26.  $(-10; 5] \cup [2; 11)$
27.  $[0; 10] \cup [6; 10)$

- 28.  $(-12; -1] \cup (-7; 3)$
- 29.  $(-11; 8] \cup (-\infty; 13]$
- 30.  $[-4; 9) \cup (7; +\infty)$
- 31.  $[1; 8] \cup [-3; +\infty)$
- 32.  $(-13; 4) \cup [1; 5]$
- 33.  $(-8; 4] \cup [-7; 6)$
- 34.  $(9; 10] \cup [7; 11)$
- 35.  $(-8; 1) \cup (-\infty; 11]$
- 36.  $(-13; -5) \cup (-9; -1]$
- 37.  $[6; 12) \cup (-10; 13)$
- 38.  $(-13; 11) \cup [1; +\infty)$
- 39.  $[-13; -5) \cup [-5; 12)$
- 40.  $[-11; 1] \cup (-3; 7)$
- 41.  $(-10; -4] \cup [-11; 12]$
- 42.  $(-9; 1] \cup [-3; 1]$
- 43.  $[-14; -12) \cup (-12; 13)$
- 44.  $[-11; 1) \cup (-12; 1]$
- 45.  $(-8; -5] \cup (-10; -5]$
- 46.  $[5; 9] \cup (-3; 13)$
- 47.  $(-10; -2] \cup (-3; 0)$
- 48.  $(-9; -4) \cup [-8; 2)$
- 49.  $[-9; 0] \cup (-\infty; 3)$
- 50.  $[-14; -1) \cup [-10; 3]$

**Câu 2.** Vẽ trục và tìm:

- 1.  $[-9; -5) \cup [-14; -2] \cup [-6; 5)$
- 2.  $(4; 9] \cup (-2; +\infty) \cup (7; 12)$
- 3.  $(-5; 6] \cup [-7; 12) \cup (5; +\infty)$
- 4.  $[1; 6] \cup [-6; +\infty) \cup [3; 9]$
- 5.  $[0; 12] \cup (2; 14] \cup (10; 11)$

6.  $(-\infty; 8) \cup (-10; 9] \cup (-9; 0]$
7.  $[-10; -5) \cup (-12; 7] \cup [-7; -3)$
8.  $(-7; 7] \cup (2; 11] \cup (6; 8]$
9.  $[-13; 4) \cup [-11; 13] \cup [-4; 5]$
10.  $[-7; -5] \cup [-11; 4) \cup (-8; 4]$
11.  $(-2; -1) \cup (-6; 3] \cup [-5; 9)$
12.  $[-5; 4) \cup (-8; 4) \cup (-7; -2]$
13.  $[3; 6) \cup (-\infty; 13] \cup [-1; 3]$
14.  $[2; 4) \cup [-5; 8) \cup (2; +\infty)$
15.  $[-13; 6) \cup (-10; 6) \cup (-7; +\infty)$
16.  $(-6; 11) \cup (-5; 13] \cup [5; 12)$
17.  $(0; 1] \cup [-12; 12) \cup [-5; 2)$
18.  $[-9; 8) \cup (-1; 9) \cup [7; 13]$
19.  $(-8; 0] \cup [-9; 0] \cup [-2; 11)$
20.  $[4; 8) \cup (-13; 10] \cup (-12; 14]$
21.  $[-11; 10] \cup [-12; 10] \cup (-11; -2)$
22.  $[0; 6) \cup [2; 9] \cup [4; 7]$
23.  $(-2; 7] \cup (-13; 7] \cup [-4; 13]$
24.  $(3; 4) \cup (-2; 4) \cup [0; 8]$
25.  $[-14; 8) \cup (-13; +\infty) \cup [-6; 3]$
26.  $[-6; 3) \cup [-9; 5] \cup [-3; 10]$
27.  $(-13; 3] \cup (-9; 9) \cup (2; 13]$
28.  $[-14; 4) \cup (-11; 5] \cup (-3; 5)$
29.  $(-10; -2) \cup (-10; 3) \cup [-8; 0]$
30.  $[-9; 8) \cup [-7; 14] \cup [-5; 13)$
31.  $(-\infty; 6) \cup [-2; 13] \cup (3; 6]$
32.  $[-10; 3] \cup (-10; 8] \cup (-8; 0)$
33.  $(-1; 10) \cup (-9; 10] \cup [-7; -2]$
34.  $(-12; 7) \cup [-10; 9) \cup (2; 6)$

35.  $[-2; 2) \cup [-9; 7) \cup [-6; 7]$
36.  $(7; 13) \cup [-8; 13] \cup (2; 6)$
37.  $[3; 9) \cup [-10; 10) \cup (1; 4)$
38.  $[6; 8] \cup (-10; 10] \cup (3; +\infty)$
39.  $[-6; 8] \cup (-5; 11] \cup (1; +\infty)$
40.  $(-1; 3] \cup [-12; 7] \cup (2; 9]$
41.  $(-5; 9] \cup (-8; 10) \cup (-5; -4]$
42.  $[2; 3) \cup [-14; 12) \cup [-6; -2]$
43.  $(-9; 4) \cup [-10; 14] \cup (-6; 13)$
44.  $[-14; 13] \cup (-8; 13] \cup [-7; +\infty)$
45.  $[-1; 6) \cup [1; 13) \cup [4; 13]$
46.  $[-1; 10) \cup (-9; 10) \cup (-1; +\infty)$
47.  $[-10; -7) \cup (-\infty; -1] \cup (-11; -3)$
48.  $(0; 3) \cup [-9; 5) \cup (-8; -7]$
49.  $(-4; 9) \cup (-5; 9) \cup [-2; 5]$
50.  $(-\infty; 7] \cup [-8; 11) \cup (-6; 14]$

**Câu 3.** Vẽ trục và tìm:

1.  $(-\infty; 4) \cap (-10; 10]$
2.  $(-12; -3] \cap [-5; 3)$
3.  $[11; 12] \cap [4; 13)$
4.  $(-7; 8] \cap (3; 9]$
5.  $(-3; 3) \cap [0; 10)$
6.  $[-12; 14] \cap (-8; +\infty)$
7.  $(2; 4) \cap (2; 5)$
8.  $(-5; -4) \cap [-4; -3]$
9.  $[-5; 7] \cap (-13; +\infty)$
10.  $(-13; -5) \cap (-12; 3)$
11.  $[-4; 6] \cap (-1; 11]$
12.  $[-6; 10) \cap [-3; 14]$

13.  $[0; 1) \cap [-4; 2]$
14.  $[8; 11] \cap [-4; 11)$
15.  $[-1; 10) \cap [10; 13)$
16.  $(-8; -2) \cap (-9; 5]$
17.  $(11; 13] \cap [-6; 13)$
18.  $[-12; -8) \cap (-13; 5)$
19.  $[-13; 7] \cap [-6; 7)$
20.  $[2; 8] \cap [-13; 9]$
21.  $(-10; 1) \cap [-9; 8)$
22.  $[-4; -1] \cap (-1; 1]$
23.  $(8; 14] \cap [6; 14]$
24.  $[-1; 1] \cap [-2; 4)$
25.  $(6; 13) \cap (1; 14]$
26.  $[0; 4) \cap [2; 8)$
27.  $[-13; -5) \cap (-9; -3)$
28.  $[-9; 10] \cap (-2; 12]$
29.  $(-12; 4) \cap [0; 11)$
30.  $(-1; 7] \cap (-12; 13]$
31.  $(0; 5] \cap [-1; 6]$
32.  $(-1; 8] \cap [1; 11)$
33.  $(-10; -1] \cap (-3; 13)$
34.  $[2; 5] \cap (0; 7]$
35.  $[0; 5] \cap [-13; +\infty)$
36.  $[-7; 5] \cap [0; 11]$
37.  $[-10; 2] \cap (-1; 13]$
38.  $(8; 11) \cap (-1; 13)$
39.  $[-9; 3) \cap (-10; 3)$
40.  $[4; 10) \cap [-5; 12)$
41.  $[-12; 4) \cap (1; 9]$

- 42.  $[-1; 7) \cap (0; 10]$
- 43.  $[-14; 11) \cap (-5; 12]$
- 44.  $(2; 11) \cap [5; 12]$
- 45.  $[-13; -5) \cap (-13; -2)$
- 46.  $(-\infty; 4] \cap [-10; 8]$
- 47.  $(-8; -5] \cap (-8; 5)$
- 48.  $[-3; 5] \cap [-9; 8)$
- 49.  $(-3; 6] \cap (-3; 10]$
- 50.  $(-10; 13] \cap [7; +\infty)$

**Câu 4.** Vẽ trục và tìm:

- 1.  $[1; 7] \cap (-10; 11] \cap [-9; -5]$
- 2.  $(1; 3) \cap [-11; 9) \cap (-2; 3)$
- 3.  $[-12; 11] \cap [-8; 12) \cap (-4; 9]$
- 4.  $[-3; 12) \cap [-6; 13] \cap [-4; 9]$
- 5.  $(-8; 1] \cap [-7; +\infty) \cap [0; 6)$
- 6.  $[-13; 9] \cap [-4; 13) \cap [0; 13]$
- 7.  $(-11; 5) \cap (-1; 10] \cap [4; 8]$
- 8.  $[-12; 6) \cap (-7; 10] \cap [-6; -2]$
- 9.  $[-1; 1] \cap [-11; 9) \cap [-8; -4)$
- 10.  $(-6; 1] \cap (-11; 2) \cap [-6; 0]$
- 11.  $[-12; -11] \cap [-14; 6] \cap [-13; 5)$
- 12.  $[-12; 7] \cap [-6; 8] \cap (-2; 11)$
- 13.  $(-4; 10) \cap [-3; 11] \cap [0; 6)$
- 14.  $[-7; 4) \cap [-12; 11) \cap [-8; -5]$
- 15.  $(-7; -3) \cap [-9; 3) \cap (-4; 3]$
- 16.  $(-8; 5] \cap [-7; 6] \cap [-3; 8]$
- 17.  $(-7; 6] \cap [-8; 10] \cap (-6; 9]$
- 18.  $(0; 5] \cap (-13; 7) \cap [4; 8)$
- 19.  $(-8; 5] \cap [-6; 11) \cap (1; 14]$

20.  $(-13; 9) \cap (-\infty; 13] \cap (-5; 6]$
21.  $(-11; 9] \cap [-6; 9) \cap (-4; 8]$
22.  $(-5; 9] \cap [-12; 12] \cap [3; 7]$
23.  $[-13; 0) \cap [-14; 11) \cap [-4; 1)$
24.  $(-13; -1) \cap (-\infty; 11) \cap [-2; 9)$
25.  $[-9; 0) \cap [-11; 1] \cap [-4; 2]$
26.  $(-8; 7] \cap [-12; 8) \cap (6; 7]$
27.  $[-10; 8) \cap [1; 10] \cap [6; 8]$
28.  $[-3; 6) \cap (-10; 8) \cap [4; 13]$
29.  $[-12; 4) \cap (-13; 11] \cap [-7; +\infty)$
30.  $[-7; -3) \cap [-13; 12) \cap [-7; -3)$
31.  $(-7; 8] \cap (-\infty; 11) \cap (-1; 3)$
32.  $(-6; 4] \cap (-2; 4] \cap [3; 8)$
33.  $[2; 6) \cap (0; +\infty) \cap [4; 10]$
34.  $(-4; 9] \cap (-5; 11] \cap [-1; 7]$
35.  $[-4; 5] \cap (-7; 7) \cap [-3; 11)$
36.  $(-9; -7) \cap (-\infty; 9] \cap [-8; 5)$
37.  $(-13; -6) \cap [-12; 12) \cap [-10; 4)$
38.  $(-9; -4] \cap (-\infty; 4] \cap (-9; -3]$
39.  $(7; 10) \cap (2; 13] \cap (4; 12)$
40.  $[-9; 13] \cap (2; 13) \cap [3; 7)$
41.  $[-3; 3) \cap [-11; 13] \cap (-3; 2)$
42.  $(-13; 2] \cap [-2; +\infty) \cap (0; 7]$
43.  $[-10; 5) \cap (-4; 10) \cap (-2; 5]$
44.  $[-14; 7) \cap (-6; 7) \cap [-1; 8]$
45.  $(-10; 3) \cap (-13; 10) \cap [0; 12]$
46.  $[-1; 3) \cap (-3; 9] \cap [0; 9)$
47.  $[-7; 10] \cap [-10; 12) \cap (-3; 9]$
48.  $(6; +\infty) \cap (-11; 14] \cap [0; 1]$
49.  $[-11; 2] \cap [-7; 5) \cap (-4; 10)$
50.  $(-2; 12) \cap (-5; 13) \cap [-3; 5]$