Ejercicio 1

135 + 14{ -31 + 23[57 – 12(91 – 69) + 21(42 – 54)] – 77}

135 + 14{ -31 + 23[57 – 12(160) + 21(-12)] – 77}

135 + 14{ -31 + 23[57 – 1920 - 252] – 77}

135 + 14{ -31 + 23 -2115 - 77}

135 + 14 -2200

-2051

Ejercicio 2

– 15 (- 23 + 100) – 18 – {- 33 + (- 50 + 25) – [13 – (46 + 60)]}

– 15 (77) – 18 – {- 33 + (- 25) – [13 – (106)]}

– 15 (77) – 18 – {-58 – [13 – 106]}

– 15 (77) – 18 – {-177}

– 15 (77) – 18 – {-177}

-1155 -18 -171

-1350

Ejercicio 3

– 9 + 7 – 15{- 14 + 20 – [- 24 (- 23 + 32) – 19 + 55 + 38 – 88]- 19}

– 9 + 7 – 15{- 14 + 20 – [- 24 (9) – 19 + 55 + 38 – 88]- 19}

– 9 + 7 – 15{- 14 + 20 – [- 216 – 19 + 55 + 38 – 88]- 19}

– 9 + 7 – 15{- 14 + 20 – 230 - 19}

– 9 + 7 – 15 – 243

-260

Ejercicio 4

(95- 157) - [(56 + 13)- (9 – 17)]+ [-(-15+23) +(39-14)-102+45]

 -62 - [(69) - (-8)]+ [-(-8) +(25)-102+45]

-62- [77]+ [ 8 + 25 – 102 + 45]

-62- 77 -24

-163

Ejercicio 5

9(64 – 59) - [7 (-87 + 93) - (- 13 – 9)] + (-132) + 105

9(5) - [7 (6) - (-22)] + (-132) + 105

9(5) - [42 - (-22)] + (-132) + 105

45 - 64 - 132 + 105

-46

Ejercicio 6

-(15+29) - (-14-47-22) + [51(-48) + 32(29-11)]

-(44) - (-83) + [51(-48) + 32(18)]

-(44) - (-83) + [-2448 + 576]

-(44) - (-83) -1872

-1837

Ejercicio 7

– {- 62+ 46 [8 – 6 (14 – 23(58 – 36) + 21 (169 – 165))] + 20} – 11

– {- 62+ 46 [8 – 6 (14 – 23(22) + 21 (4))] + 20} – 11

– {- 62+ 46 [8 – 6 (14 – 506 + 84)] + 20} – 11

– {- 62+ 46 [8 – 6 (-408)] + 20} – 11

– {- 62+ 46 [8 + 2448] + 20} – 11

– {- 62+ 46 [2456] + 20} – 11

– {- 62+ 46 + 2456 + 20} – 11

– 2460 – 11

-2471

Ejercicio 8

79 +{ - 30 – [17 + 1(- 2 + 3) ] } – 37

79 +{ - 30 – [17 + 1(1) ] } – 37

79 +{ - 30 – [17 + 1 ] } – 37

79 +{ - 30 – 18 } – 37

79 - 48 – 37

-6

Ejercicio 9

64 – [51 – 39(14 – 11)]– {8 – 7[24 –22(9 – 2)]} +(-54)

64 – [51 – 39(3)]– {8 – 7[24 –22(7)]}+(-54)

64 – [51 – 117]– {8 – 7[24 –154]}+(-54)

64 – 51 – 117– 8 – 7 -130 -54

-303

Ejercicio 10

8 –(89 – 92 [- 61 + 76 (15 – 12)– 3])

8 –(89 – 92 [- 61 + 76 (3)– 3])

8 –(89 – 92 [- 61 + 228 – 3])

8 –(89 – 92 +164)

8 –(161)

-153