

RECTAS Y ÁNGULOS

OPERACIONES CON ÁNGULOS:

Pasa a forma incompleja:

1. $21^{\circ} 32' 1''$
2. $45^{\circ} 12' 52''$
3. $90^{\circ} 4' 34''$
4. $120^{\circ} 3' 6''$
5. $205^{\circ} 5' 23''$

Pasa a forma compleja:

6. $3.705''$
7. $742''$
8. $92.312''$
9. $123.230''$
10. $13.129''$

Halla el ángulo complementario:

11. $21^{\circ} 32' 10''$
12. $45^{\circ} 12' 45''$
13. $89^{\circ} 4' 56''$
14. $20^{\circ} 12' 37''$
15. $75^{\circ} 32' 29''$

Halla el ángulo suplementario:

16. $21^{\circ} 32' 1''$
17. $45^{\circ} 12' 52''$
18. $90^{\circ} 13' 51''$
19. $120^{\circ} 3' 6''$
20. $135^{\circ} 16' 23''$

Calcula:

21. $91^{\circ} 5' 23'' + 4^{\circ} 56' 42''$
22. $12^{\circ} 12' 12'' + 51^{\circ} 24' 49''$
23. $35^{\circ} 45' 25'' + 18^{\circ} 39' 20''$
24. $164^{\circ} 8' 37'' + 178^{\circ} 3' 57''$
25. $834^{\circ} 15' 52'' + 71^{\circ} 58' 53''$
26. $62^{\circ} 5' 23'' - 23^{\circ} 12' 35''$
27. $24^{\circ} 1' 53'' - 12^{\circ} 41' 53''$
28. $45^{\circ} 12' 46'' - 23^{\circ} 54' 50''$
29. $23^{\circ} 32' 56'' - 20^{\circ} 34' 59''$
30. $123^{\circ} 23' 56'' - 93^{\circ} 53' 35''$
31. $(12^{\circ} 35' 46'').2$
32. $(4^{\circ} 25' 13'').4$
33. $(124^{\circ} 12' 25'').3$
34. $(72^{\circ} 43' 13'').5$
35. $(32^{\circ} 31' 24'').2$
36. $(12^{\circ} 42' 51'').3$
37. $(83^{\circ} 34' 48'').4$
38. $(121^{\circ} 23' 35'').5$
39. $(35^{\circ} 23' 15'') + (43^{\circ} 12' 44'') - (72^{\circ} 23' 30'')$
40. $(12^{\circ} 35' 45'') - 7^{\circ} 15' 30''$
41. $(23^{\circ} 13' 3'' + 13^{\circ} 12' 42'').3$
42. $(70^{\circ} 25' 18'').3$
43. $17^{\circ} 35' 24'' + 42^{\circ} 13' 27'' + 86^{\circ} 15' 58''$
44. $17^{\circ} 23' 33'' + 25^{\circ} 45' 18'' + 34^{\circ} 14' 30''$
45. $17^{\circ} 35' 24'' + 42^{\circ} 13' 27'' - 56^{\circ} 15' 58''$
46. $17^{\circ} 23' 33'' + 25^{\circ} 45' 18'' - 34^{\circ} 14' 30''$
47. $13^{\circ} 25' 32'' + 2.(3^{\circ} 35' 54'')$
48. $15^{\circ} 37' 17'' + 2.(6^{\circ} 47' 8'')$
49. $12^{\circ} 45' 32'' + 2.(13^{\circ} 23' 54'' - 9^{\circ} 45' 30'')$
50. $23^{\circ} 57' 27'' + 3.(23^{\circ} 23' 53'' - 22^{\circ} 12' 24'')$

SOLUCIONES:

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| 1. $77.521''$ | 14. $69^{\circ} 47' 23''$ | 27. $11^{\circ} 20' 0''$ | 40. $10^{\circ} 40' 30''$ |
| 2. $162.772''$ | 15. $14^{\circ} 27' 31''$ | 28. $21^{\circ} 17' 56''$ | 41. $109^{\circ} 17' 15''$ |
| 3. $324.274''$ | 16. $158^{\circ} 27' 59''$ | 29. $2^{\circ} 57' 57''$ | 42. $23^{\circ} 28' 26''$ |
| 4. $432.186''$ | 17. $134^{\circ} 47' 8''$ | 30. $29^{\circ} 30' 21''$ | 43. $146^{\circ} 4' 49''$ |
| 5. $738.323''$ | 18. $89^{\circ} 46' 9''$ | 31. $25^{\circ} 11' 32''$ | 44. $77^{\circ} 23' 21''$ |
| 6. $1^{\circ} 1' 45''$ | 19. $59^{\circ} 56' 9''$ | 32. $17^{\circ} 40' 52''$ | 45. $3^{\circ} 32' 53''$ |
| 7. $12' 22''$ | 20. $44^{\circ} 43' 37''$ | 33. $372^{\circ} 37' 15''$ | 46. $8^{\circ} 54' 21''$ |
| 8. $25^{\circ} 38' 32''$ | 21. $96^{\circ} 2' 5''$ | 34. $363^{\circ} 36' 5''$ | 47. $20^{\circ} 37' 20''$ |
| 9. $34^{\circ} 13' 50''$ | 22. $63^{\circ} 37' 1''$ | 35. $16^{\circ} 15' 42''$ | 48. $29^{\circ} 11' 33''$ |
| 10. $3^{\circ} 38' 49''$ | 23. $54^{\circ} 24' 45''$ | 36. $4^{\circ} 14' 17''$ | 49. $20^{\circ} 2' 20''$ |
| 11. $68^{\circ} 27' 50''$ | 24. $342^{\circ} 12' 34''$ | 37. $20^{\circ} 53' 42''$ | 50. $20^{\circ} 2' 20''$ |
| 12. $44^{\circ} 47' 15''$ | 25. $906^{\circ} 14' 45''$ | 38. $24^{\circ} 16' 43''$ | |
| 13. $55' 4''$ | 26. $38^{\circ} 52' 48''$ | 39. $6^{\circ} 12' 29''$ | |