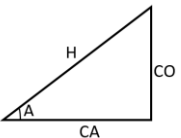
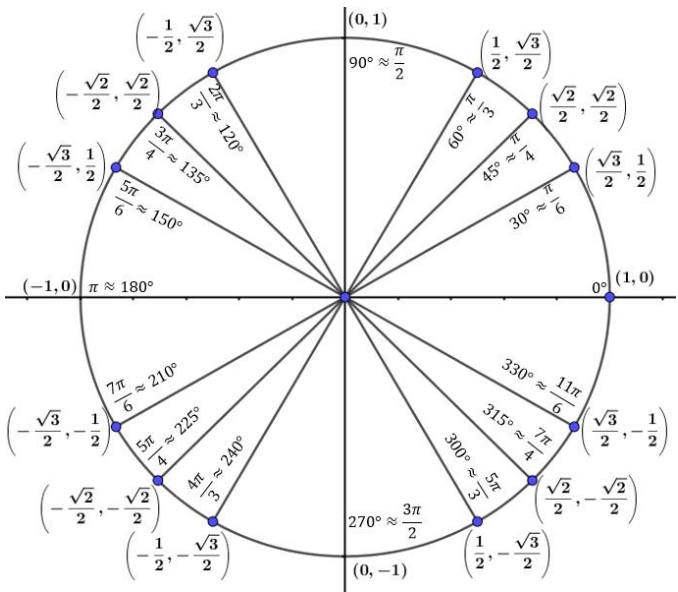


TABLA RESÚMEN PARA ABORDAR UN CURSO DE CÁLCULO DIFERENCIAL E INTEGRAL v1.1

<p>POTENCIACIÓN</p> <ol style="list-style-type: none"> 1. $a^m \cdot a^n = a^{m+n}$ 2. $\frac{a^m}{a^n} = a^{m-n}$ 3. $(a \cdot b)^n = a^n \cdot b^n$ 4. $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$ 5. $(a^m)^n = a^{mn}$ 6. $a^{-m} = \frac{1}{a^m}$ <p>RADICACIÓN</p> <ol style="list-style-type: none"> 7. $\sqrt[n]{a \cdot b} = \sqrt[n]{a} \cdot \sqrt[n]{b}$ 8. $\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}}$ 9. $\sqrt[m]{\sqrt[n]{a}} = \sqrt[mn]{a}$ 10. $\sqrt[n]{a^m} = (\sqrt[n]{a})^m = a^{m/n}$ 11. $(\sqrt[n]{a})^n = a$ si n es impar 12. $(\sqrt[n]{a})^n = a$ si n es par <p>LOGARITMACIÓN</p> <ol style="list-style-type: none"> 13. $\log_a xy = \log_a x + \log_a y$ 14. $\log_a \frac{x}{y} = \log_a x - \log_a y$ 15. $\log_a x^y = y \log_a x$ 16. $\log_a x = \frac{\text{Lnx}}{\text{Lna}}$ <p>TRIGONOMETRÍA</p>  <ol style="list-style-type: none"> 17. $\text{sen}(A) = \frac{\text{CO}}{\text{H}}$ 18. $\text{cos}(A) = \frac{\text{CA}}{\text{H}}$ 19. $\text{tan}(A) = \frac{\text{CO}}{\text{CA}}$ 20. $\text{cot}(A) = \frac{\text{CA}}{\text{CO}}$ 21. $\text{sec}(A) = \frac{\text{H}}{\text{CA}}$ 22. $\text{csc}(A) = \frac{\text{H}}{\text{CO}}$ 	<p>29. $\text{sen}(-A) = -\text{sen}(A)$</p> <p>30. $\text{cos}(-A) = \text{cos}(A)$</p> <p>31. $(\text{cos}(\alpha), \text{sen}(\alpha))$</p>  <p>32. $\text{sen}(A) + \text{sen}(B) = 2\text{sen}\left(\frac{A+B}{2}\right)\text{cos}\left(\frac{A-B}{2}\right)$</p> <p>33. $\text{sen}(A) - \text{sen}(B) = 2\text{cos}\left(\frac{A+B}{2}\right)\text{sen}\left(\frac{A-B}{2}\right)$</p> <p>34. $\text{cos}(A) + \text{cos}(B) = 2\text{cos}\left(\frac{A+B}{2}\right)\text{cos}\left(\frac{A-B}{2}\right)$</p> <p>35. $\text{cos}(A) - \text{cos}(B) = -2\text{sen}\left(\frac{A+B}{2}\right)\text{sen}\left(\frac{A-B}{2}\right)$</p> <p>36. $\text{tan}(A) \pm \text{tan}(B) = \frac{\text{sen}(A \pm B)}{\text{cos}(A)\text{cos}(B)}$</p> <p>37. $\text{sen}(A \pm B) = \text{sen}(A)\text{cos}(B) \pm \text{cos}(A)\text{sen}(B)$</p> <p>38. $\text{cos}(A \pm B) = \text{cos}(A)\text{cos}(B) \mp \text{sen}(A)\text{sen}(B)$</p> <p>39. $\text{tan}(A \pm B) = \frac{\text{tan}(A) \pm \text{tan}(B)}{1 \mp \text{tan}(A)\text{tan}(B)}$</p> <p>40. $\text{cot}(A \pm B) = \frac{\text{cot}(A)\text{cot}(B) \mp 1}{\text{cot}(B) \pm \text{cot}(A)}$</p>	<p>45. $\text{sen}\left(\frac{A}{2}\right) = \pm \sqrt{\frac{1 - \text{cos}(A)}{2}}$</p> <p>46. $\text{cos}\left(\frac{A}{2}\right) = \pm \sqrt{\frac{1 + \text{cos}(A)}{2}}$</p> <p>47. $\text{tan}\left(\frac{A}{2}\right) = \pm \sqrt{\frac{1 - \text{cos}(A)}{1 + \text{cos}(A)}}$</p> <p>48. $\text{sen}^2(A) + \text{cos}^2(A) = 1$</p> <p>49. $\text{sec}^2(A) - \text{tan}^2(A) = 1$</p> <p>50. $\text{csc}^2(A) - \text{cot}^2(A) = 1$</p> <p>51. $\text{sen}(2A) = 2\text{sen}(A)\text{cos}(A)$</p> <p>52. $\text{cos}(2A) = \text{cos}^2(A) - \text{sen}^2(A)$</p> <p>53. $\text{tan}(2A) = \frac{2\text{tan}(A)}{1 - \text{tan}^2(A)}$</p> <p>54. $\text{sen}(3A) = 3\text{sen}(A) - 4\text{sen}^3(A)$</p> <p>55. $\text{cos}(3A) = 4\text{cos}^3(A) - 3\text{cos}(A)$</p> <p>56. $\text{tan}(3A) = \frac{3\text{tan}(A) - \text{tan}^3(A)}{1 - 3\text{tan}^2(A)}$</p> <p>57. $\text{sen}^2(A) = \frac{1}{2}[1 - \text{cos}(2A)]$</p> <p>58. $\text{cos}^2(A) = \frac{1}{2}[1 + \text{cos}(2A)]$</p> <p>59. $\text{sen}^3(A) = \frac{1}{4}[3\text{sen}(A) - \text{sen}(3A)]$</p> <p>60. $\text{cos}^3(A) = \frac{1}{4}[3\text{cos}(A) + \text{cos}(3A)]$</p>
<ol style="list-style-type: none"> 23. $\text{sen}(A) = \frac{1}{\text{csc}(A)}$ 24. $\text{cos}(A) = \frac{1}{\text{sec}(A)}$ 25. $\text{tan}(A) = \frac{1}{\text{cot}(A)} = \frac{\text{sen}(A)}{\text{cos}(A)}$ 26. $\text{cot}(A) = \frac{1}{\text{tan}(A)} = \frac{\text{cos}(A)}{\text{sen}(A)}$ 27. $\text{sec}(A) = \frac{1}{\text{cos}(A)}$ 28. $\text{csc}(A) = \frac{1}{\text{sen}(A)}$ 	<ol style="list-style-type: none"> 41. $\text{sen}(A)\text{sen}(B) = -\frac{1}{2}[\text{cos}(A+B) - \text{cos}(A-B)]$ 42. $\text{cos}(A)\text{cos}(B) = \frac{1}{2}[\text{cos}(A+B) + \text{cos}(A-B)]$ 43. $\text{sen}(A)\text{cos}(B) = \frac{1}{2}[\text{sen}(A+B) + \text{sen}(A-B)]$ 44. $\text{cos}(A)\text{sen}(B) = \frac{1}{2}[\text{sen}(A+B) - \text{sen}(A-B)]$ 	