

Examrace

Special constants values to remember for Competitive Exams

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1. $\pi = 3.14159\ 26535\ 89793\ 23846\ 2643\ \dots$

2. $e = 2.71828\ 18284\ 59045\ 23536\ 0287\ \dots \lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$

= *natural base of logarithms*

1. $\sqrt{2} = 1.41421\ 35623\ 73095\ 04880\ \dots$

2. $\sqrt{3} = 1.73205\ 08075\ 68877\ 2935\ \dots$

3. $\sqrt{5} = 2.23606\ 79774\ 99789\ 6964\ \dots$

4. $\sqrt[3]{2} = 1.25992\ 1050\ \dots$

5. $\sqrt[3]{3} = 1.44224\ 9570\ \dots$

6. $\sqrt[5]{2} = 1.14869\ 8355\ \dots$

7. $\sqrt[5]{3} = 1.24573\ 0940\ \dots$

8. $e^\pi = 23.14069\ 26327\ 79269\ 006\ \dots$

9. $\pi^e = 22.45915\ 77183\ 61045\ 47342\ 715\ \dots$

10. $e^e = 15.15426\ 22414\ 79264\ 190\ \dots$

11. $\log_{10} 2 = 0.30102\ 99956\ 63981\ 19521\ 37389\ \dots$

12. $\log_{10} 3 = 0.47712\ 12547\ 19662\ 43729\ 50279\ \dots$

13. $\log_{10} e = 0.43429\ 44819\ 03251\ 82765\ \dots$

14. $\log_{10} \pi = 0.49714\ 98726\ 94133\ 85435\ 12683\ \dots$

15. $\log_e 10 = \ln 10 = 2.30258\ 50929\ 94045\ 68401\ 7991\ \dots$

16. $\log_e 2 = \ln 2 = 0.69314\ 71805\ 59945\ 30941\ 7232\ \dots$

17. $\log_e 3 = \ln 3 = 1.09861\ 22886\ 68109\ 69139\ 5245\ \dots$

18. $\gamma = 0.57721\ 56649\ 01532\ 86060\ 6512\ \dots = \textit{Euler's constant}$

= $\lim_{n \rightarrow \infty} \left(1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n} - \ln n\right)$

1. $e^{\gamma} = 1.78107\ 24179\ 90191\ 9852 \dots$ [see 20]

2. $\sqrt{e} = 1.64872\ 12707\ 00128\ 1468 \dots$

3. $\sqrt{\pi} = \Gamma\left(\frac{1}{2}\right) = 1.77245\ 38509\ 05516\ 02729\ 8167 \dots$

Where Γ is the gamma function [see pages 101 – 102].

1. $\Gamma\left(\frac{1}{3}\right) = 2.67893\ 85347\ 07748 \dots$

2. $\Gamma\left(\frac{1}{2}\right) = 3.62560\ 99082\ 21908 \dots$

3. $1 \text{ radian} = \frac{180^{\circ}}{1} = 57.29577\ 95130\ 8232 \dots$

4. $1^{\circ} = \frac{\pi}{180} \text{ radians} = 0.01745\ 32925\ 19943\ 29576\ 92 \dots \text{ radians}$

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