1 classification of numbers system de course 12 Number complex numbers Real numbers Innational Purely Real Rational Fraction Integer Proper Wegotive Improper mixed > Possitive/Natural/Numbers composite neither prime Proim

Shot on OnePlus

By 🥰 DEBA🥰

Proim fuetoroization of 540: Therefore, the proim factorization of 540 is = 21.33.5 3) From no. 2 The proim factorization of 540 is = 22.33.5 So, the total tonum bens of factors of 540 is = (2+1) (3+1) (5+1) = 3.4.6 Shotoh One Plus

540 = [x640]

=
$$2 \times 270$$
= 15×36
= 3×180
= 15×36
= 15×36
= 15×36
= 15×108
= 15×1

5. H.C.F and L.C.M of 42,63

2)42

2 X3 X7

マンメラメラ

H.C. F Of (42, 63, 140) = 7 1. C. F Of (42,63,140) = $2^{1}\times3^{2}\times3\times5$ 1. C. M Of (42,63,140) = 1260

with property and

axiet aleest y e le

100 100 1

To real as report of trees Shot on OnePlus

06. calculation for numerators, 10 111.3.5 16=24 10 = 21 x 5' calculation for Demominators ·. L cm (2,8,16,10) = 24x5 = 80 :. H.e.F (2.8,16,10) = 2 L.C.M (3.9.81,23) = 34 = 81 H.c.m (3,9.81,27) = 3 Herre H. C.F of 2/3, 8/9, 16/81, 19/27 = HeF (2,8, 16,20) L.c.m (3,9,81,23)

Shot on OnePlus

By 🥰 DEBA🥰

L.C.M of
$$\frac{2}{3}$$
, $\frac{8}{9}$, $\frac{16}{81}$, $\frac{19}{27}$

$$= \frac{1cm(2,8,16,16)}{4cpn(3,9,81,27)}$$

$$= \frac{89}{3}$$

07. We have

$$\frac{1+\sqrt{3}i}{1-\sqrt{3}i}$$

$$= \frac{(1+\sqrt{3}i)(1+\sqrt{3}i)}{(1-\sqrt{3}i)(1+\sqrt{3}i)}$$

$$= \frac{1+2\sqrt{3}i-3}{1-(1-\sqrt{3}i)(1+\sqrt{3}i)}$$

$$= \frac{1+2\sqrt{3}i-3}{1-(1-\sqrt{3}i)(1+\sqrt{3}i)}$$

$$= \frac{-2+2\sqrt{3}i}{1+3}$$

$$= \frac{2(-1+\sqrt{3}i)}{4}$$

$$= -\frac{1}{2} + \frac{1}{3} + \frac{1}{3$$

$$2 = -\frac{1}{2} + \frac{\sqrt{3}}{2}$$

$$|2| = \sqrt{(-\frac{3}{2})^{2}} + (\frac{\sqrt{3}}{2})^{2}$$

$$|2| = \sqrt{(-\frac{3})^{2}} + (\frac{\sqrt{3}}{2})^{2}$$

$$|2| = \sqrt{(-\frac{3})^{2}} + (\frac{\sqrt{3}}{2})^{2}$$

polon from A/2+ 13 i. Exponential from is 2 = nei = 1. e 27/3 $=e^{2\eta/3}i$ 08. we have V-16 X V-4 = VI6i X V4i
= 4i° X 2i°
= 8i° 1 and V-16/5-4 09. We have ·. 82-2 = 8(2+i°)-(2+i) = 16+81°-(4+41°+12) =16+810-64+410+1 = 13+4° · modules 10 = V(13) +(4)2 = 5169+16 = 5185 Shot on OnePlustom-1 4/13

= 17. 102

By CDEBA

10. we have Z= 1+iv3 Z= n+iy | |2| = \n-+y-951 - 5 21 11051 0 = tom-1 7/m : modulus of Z = \(\int_{(1)}^{\int_{(1)}}\) = - 51+3 :. 10 = 2 Angument of 2 = tom-1 (v3/1) = tom-1 tom T/3 = 4 1/3 · therefore, n(coso +isino) fromis 2 (ws 1/3 + i sin 1/3).

" (TE3)- (TE3)362 19 98

1+10+113-10+119

Shot on OnePlus

By 🥰 DEBA🥰