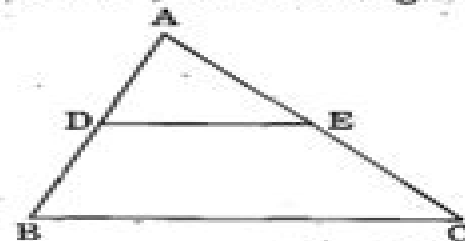


4. In $\triangle ABC$, D and E are points on the sides AB and AC respectively such that $DE \parallel BC$. If $AD = 2.5$ cm, $BD = 3$ cm and $AE = 3.75$ cm, then the length of AC is



- (a) 7.25 cm
(c) 9.25 cm

- (b) 8.25 cm
(d) 6.25 cm

5. If $\tan \theta = \sqrt{3}$, then the value of $\operatorname{cosec} \theta$ is

(a) $\frac{1}{2}$

(b) 2

(c) $\frac{2}{\sqrt{3}}$

(d) $\frac{\sqrt{3}}{2}$

6. If $\operatorname{cosec} \theta = \sqrt{2}$, then the value of $\frac{2 \sin^2 \theta + 3 \cot^2 \theta}{4 (\tan^2 \theta - \cos^2 \theta)}$ is

- (a) 0
(c) 2

- (b) -1
(d) -2

7. The value of $\frac{\cos 30^\circ + \sin 60^\circ}{1 + \cos 60^\circ + \sin 30^\circ}$ is

(a) 1

(b) $\sqrt{2}$

(c) $\frac{\sqrt{3}}{2}$

(d) None of these

8. Euclid's Division Lemma states that for any two positive integers a and b , there exist unique integers q and r such that $a = bq + r$, where r must satisfy :

- (a) $0 \leq r < b$
(c) $0 < r < b$

- (b) $1 < r < b$
(d) None of these

9. For a given data with 60 observations the 'less than ogive' and the 'more than ogive' intersect at (20.5, 30). The median of the data is

- (a) 20
(c) 30

- (b) 60
(d) 20.5

10. The value of k for which the system of equations $3x + 5y = 0$ and $kx + 10y = 0$ has non-zero solution is

- (a) 2
(c) 6

- (b) 0
(d) 8

Section 'B'

Question numbers 11 to 18 carry 2 marks each.

11. Prove that $\sqrt{3}$ is an irrational.

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 - The Rise of Digital Reading Sample Papers For Class Cbse Sa1
 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sample Papers For Class Cbse Sa1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Papers For Class Cbse Sa1
 - Personalized Recommendations
 - Sample Papers For Class Cbse Sa1 User Reviews and Ratings
 - Sample Papers For Class Cbse Sa1 and Bestseller Lists
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web this page is mainly introduced the a572 gr 50 datasheet including chemical information mechanical properties physical properties mechanical properties heat treatment and micro structure etc it also contains the use of a572 gr 50 such as it is commonly used in bars sheet plates steel coils steel pipes forged and other materials

astm a572 ssab - Mar 28 2023

web astm a572 the astm a572 specification is the standard specification for high strength low alloy columbium vanadium structural steel for plates used in general construction and structural applications astm a572 includes five grades with specified minimum yield strengths of 42 50 55 60 and 65 ksi respectively

a572 structural carbon hsla steel plate chapel steel - Jun 18 2022

web astm a572 a high strength low alloy steel plate that is utilized in a variety of structural applications this specification is produced in grades 42 50 55 60 65 the grades representing the yield strength plates that are 4 and thicker are made to a 42 ksi yield although material can be modified to reach the 50 ksi min yield

mechanical properties of astm a572 grades 50 and 60 steels at - Nov 23 2022

web this study presents a detailed experimental study on the mechanical properties of astm a572 grade 50 gr 50 and grade 60 gr 60 steels at high temperatures in addition extensive literature data on the yield strength tensile strength and elastic modulus of mild steel ms high strength steel hss and very high strength steel vhss