

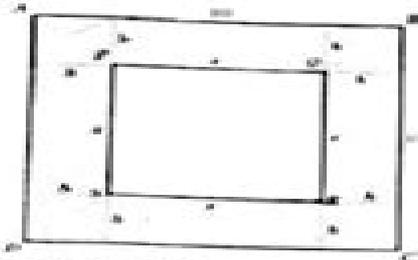
CIVIL ENGINEERING LICENSURE EXAMINATIONS

MATHEMATICS and SURVEYING NOVEMBER 2016

1. CE Board Nov. 2016

ABCD is a square of side 10 cm. PQRS is a square inside ABCD. PQBA, QCRB, RSDC, and SPAD are identical trapezia, each of area 15 cm². What is the height of each trapezium? PQ is parallel to AB and SR is parallel to DC?

Solution:



Area of all trapezium :

$$A = \frac{(x + 10)}{2} (h)(4)$$

$$A = 100 - x^2$$

$$\frac{(x + 10)}{2} h = 15$$

$$h = \frac{32}{x + 10}$$

$$\frac{(x + 10)}{2} h(4) = 100 - x^2$$

$$\frac{(x + 10)(32)(4)}{(x + 10)(2)} = 100 - x^2$$

$$100 - x^2 = 64$$

$$x^2 = 36$$

$$x = 6$$

$$h = \frac{32}{6 + 10} = 2 \text{ cm}$$

2. CE Board Nov. 2016

Compute the value of "b" if A and B are perpendicular

$$A = 2i + b + k$$

$$B = 4i - 2j - 2k$$

Solution:

A and B are perpendicular then $A \cdot B = 0$

$$A \cdot B = 4(2) + (-2)(b) - 2(1) = 0$$

$$b = 3$$

3. CE Board Nov. 2016

Any structure built into the sea but not parallel to the coast line and includes any stage, sta landing place, landing stage, jetty, floating barge or pontoon any bridge or other work connected therewith.

- ✓ a) Pier
b) Port
c) Wharf
d) Lighthouse

4. CE Board Nov. 2016

The following interior angles of a triangle traverse were measured with the same precision

What is the most probable value of angle C, in degrees?

Angle	Value	No. of Measurement
A	41	5
B	77	6
C	63	2

Civil Engineering Sample Board Exam Problems

Terry C. Jones



Civil Engineering Sample Board Exam Problems:

Civil Engineering Sample Board Exam Problems Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Civil Engineering Sample Board Exam Problems**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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