

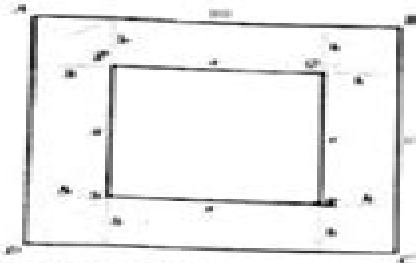
# CIVIL ENGINEERING LICENSURE EXAMINATIONS

## 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 cm<sup>2</sup>. 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

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**KJ Lindholm-Leary**



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