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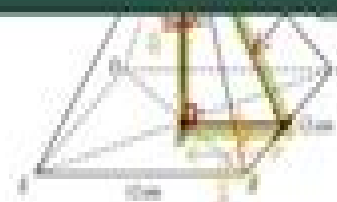
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The diagram shows a pyramid with a square base ABCD.
The diagonals AC and BD intersect at E and the height PE is 8 cm.
AD = 13 cm and AB = 12 cm.

(i) Calculate the volume of the pyramid.

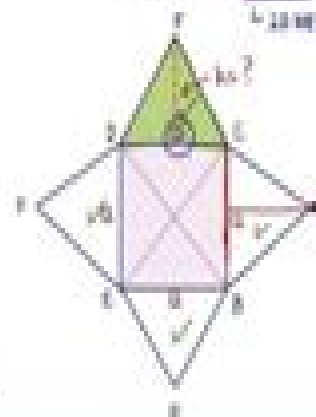
[The volume, V , of a pyramid with base area A and height h is $V = \frac{1}{3}Ah$.]

$$\begin{aligned} V &= \frac{1}{3} \times A \times h \\ &= \frac{1}{3} \times (12 \times 12) \times 8 \\ &= 432 \end{aligned}$$

432 cm³

(ii) Calculate the total surface area of the pyramid.

12 cm 13 cm



Area of square base = $12^2 = 144 \text{ cm}^2$

$$\begin{aligned} \text{Area of triangle } \triangle ADE &= \frac{1}{2} \times 12 \times 8 \\ &= \frac{1}{2} \times 12 \times \sqrt{13} \\ &= (6\sqrt{13}) \times 2 = 12\sqrt{13} \\ &= 43.6 \text{ cm}^2 \end{aligned}$$

43.6 cm²

Mathematic October November Paper 42 2013

Jiyuan Zhang



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The Book Keith Houston,2016-08-18 A masterful and overwhelmingly entertaining volume Clea Simon Boston Globe In The Book Keith Houston reveals that the paper ink thread glue and board from which a book is made tell as rich a story as the words on its pages In an invitingly tactile history of this 2 000 year old medium Houston follows the development of writing printing the art of illustrations and binding to show how we have moved from cuneiform tablets and papyrus scrolls to the hardcovers and paperbacks of today

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Florentin Smarandache,2022-04-01 This eighth volume of Collected Papers includes 75 papers comprising 973 pages on theoretic and applied neutrosophics written between 2010 2022 by the author alone or in collaboration with the following

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Interrogating Whiteness and Relinquishing Power Nicole M. Joseph,Chayla Haynes,Floyd Cobb,2016 Interrogating Whiteness and Relinquishing Power White Faculty s Commitment to Racial Consciousness in STEM Classrooms is a collection of narratives that will transform the teaching of any faculty member who teaches in the STEM system The book links issues of inclusion to teacher excellence at all grade levels by illuminating the critical influence that racial consciousness has on the behaviors of White faculty in the classroom It functions as an analytical tool scaffolding exemplary examples to inspire readers to engage in the complex and difficult work of assessing their own racial consciousness and teacher effectiveness White pre service teachers in STEM education rarely see the importance of the link between race and the teaching and learning of mathematics in part because the White faculty who are teaching these subjects rarely engage in the study of racial projects in STEM From this perspective the authors of this book contend that the classroom is a racialized environment that if not addressed can reproduce racial structures and hierarchies in cyclical ways Sir Henry Maine, a brief memoir of his life, by sir M.E. Grant Duff. With some of his Indian speeches and minutes, selected and ed. by W. Stokes Henry Sumner

Maine,1892 *Catalogue of Scientific Papers* Royal Society (Great Britain),1914 **Catalogue of Scientific Papers**
(1800-1900): ser. 4 , 1884-1900 Royal Society (Great Britain),1914 *Library Journal* Melvil Dewey,Richard Rogers
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