

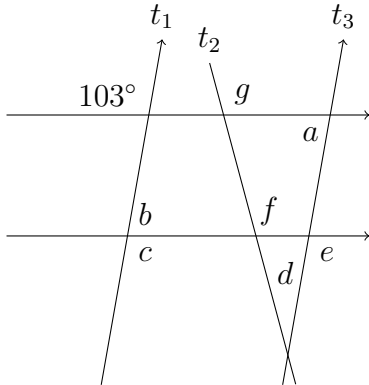
Math 123-02
 Fall 2024
 Dr. Lily Yen

Quiz Three

Show all your work

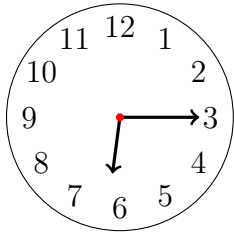
Name: _____
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 Signature: _____
 Score: ____/20

Problem 1: Euclid drew two pairs of parallel lines, the horizontal pair, and the pair, t_1 and t_3 . Suppose $\angle g \cong 112^\circ$, find angles: $\angle e$ and $\angle f$.



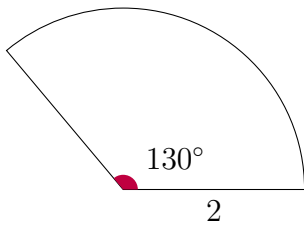
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Problem 2: Find the smaller angle formed by the hour hand and the minute hand at six fifteen on a twelve-hour analogue clock. Show your work.



Score: /3

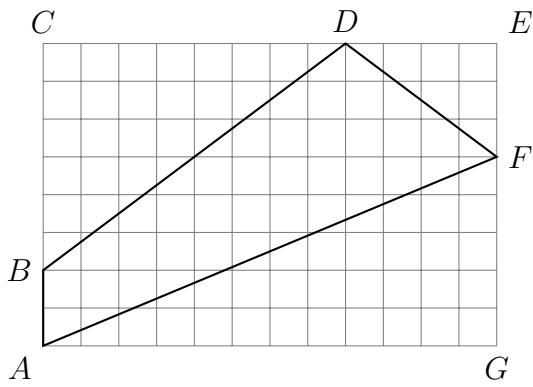
Problem 3: Find the area and perimeter of the given sector given that the sector angle is 130° with a radius of 2.



Score: /4

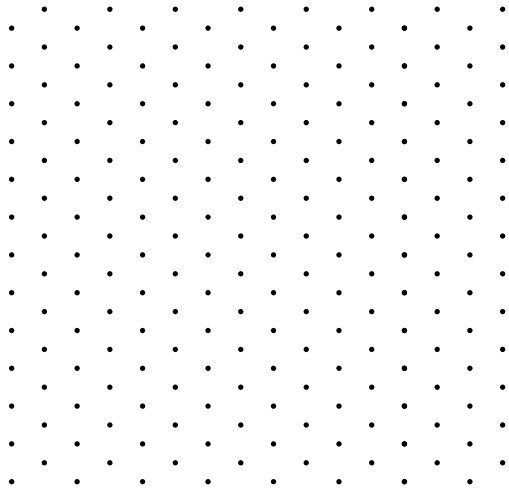
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Problem 4: Find the area and perimeter of quadrilateral $ABDF$ enclosed in the given rectangle $ACEG$.



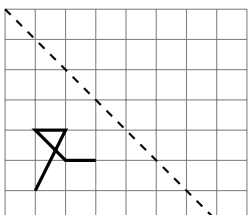
Score: /4

Problem 5: Draw a triangular prism and a rectangular prism both of base area 4 square units, and height of 5 units. Which one has a bigger volume? Which one has a bigger surface area?



Score: /4

Problem 6: Reflect the figure along the dashed diagonal.



Score: /2