1. Thales of Miletus is considered to be the father of Greek mathematics. What can you tell about him? Which mathematical results is he credited with?

pts: /5

2. What did the Pythagorean philosophy rest on? What are “figurate numbers”? Give some of their properties.

pts: /5
3. Explain the following comment of Aristotle: “If we assume that the diagonal and the side of a square are commensurable, then odd numbers will be equal to even ones.”

4. Explain what it means to square a plane figure. Explain the construction that yields the quadrature of a rectangle.
5. What is a “lune”? State Hippocrates’ Theorem and sketch the strategy of its proof. Which results are needed in the argument?

6. Give some examples of Zeno’s Paradoxes.