About the cover

David Dorcas, who is currently taking Euclidean geometry, is a sophomore at North Oconee High School in Georgia. After watching the movie *Pi*, he became intrigued with the golden spiral and did some research about it on his own. Using the tools of the computer program GeoSketchpad™, David was able to create the golden spiral, along with other mathematically based drawings. The piece featured on the front of this issue is one of David’s sketches in which the ratio of consecutive segments is the golden mean. Below is his explanation for creating the golden rectangle, which he used to create his drawings.

First create a square.
Then find the midpoint (M) of the base.
Next create a circle with M as your center and A as your outer edge.
Extend line CD until it intersects with the circle (point E).
Create a perpendicular line at point E.
Extend line BA until it intersects that perpendicular line (point F).
Rectangle BFEC is the golden rectangle.


More mathematical artwork by David Dorcas:
Artwork by David Dorcas continued: