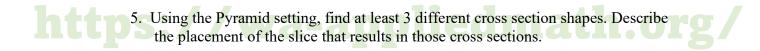
## **Cross Section Flyer Exploration Questions**

1. Using the *Double Cone* setting and the *Rotate Slice* slider bar, describe the placement of the slice that results in a cross section that is a:

• Circle

- Ellipse
  Parabola
- Hyperbola
- 2. Using the *Pyramid* setting and the *Lateral Faces* slider bar, describe how the cross sections change as you increase the number of lateral faces.
- 3. Using the Cone setting, find at least 3 different cross section shapes. Describe the placement of the slice that results in those cross sections.

4. Using the Cylinder setting, find at least 3 different cross section shapes. Describe the placement of the slice that results in those cross sections.



© Copyright The Shodor Education Foundation, Inc. For more information, please visit http://www.shodor.org/ 6. Using the Prism setting, find at least 3 different cross section shapes. Describe the placement of the slice that results in those cross sections.

- 7. Describe at least one similarity between pyramid cross sections and prism cross sections.
- 8. Describe at least one difference between pyramid cross sections and prism cross sections.
- 9. Describe at least one similarity between prism cross sections and cylinder cross sections.
- 10. Describe at least one difference between prism cross sections and cylinder cross sections.

## https://wa-appliedmath.org/

© Copyright The Shodor Education Foundation, Inc. For more information, please visit http://www.shodor.org/