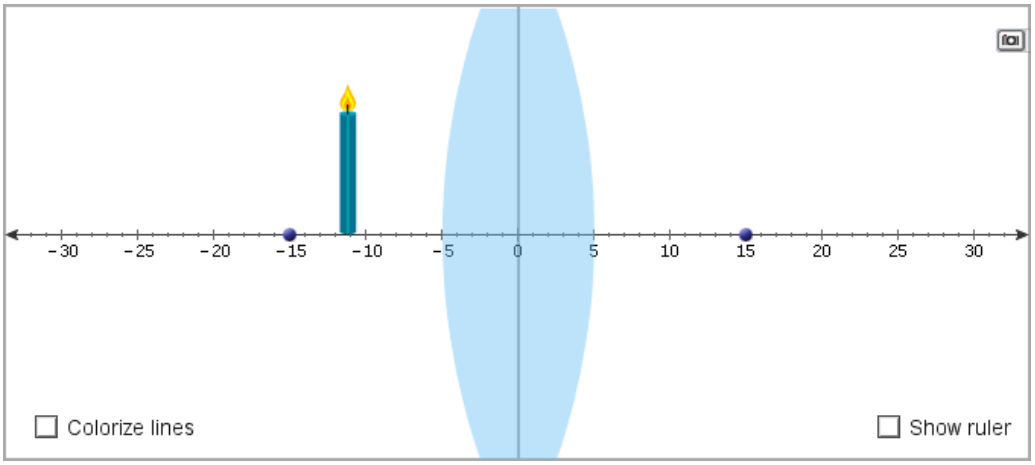
Name: _____ Date: _____

Student Practice: Lens

1. The image below shows an object placed to the left of a lens with a focal length of 15 units.



Which statement correctly describes the image?

A) The image is upright and on the left side of the lens.
B) The image is upright and on the right side of the lens.
C) The image is inverted and on the left side of the lens.
D) The image is inverted and on the right side of the lens.

2. A concave lens can only generate…

A) enlarged images
B) virtual images
C) inverted images
D) none of the above

3. An object is placed 8 cm from a lens with a focal length of 4 cm. The object is 30 cm tall.

What is the height of the image? _____

In the space below, show your work.

4. An object is placed 4 cm from a lens, and an image forms on the other side of the lens, 6 cm away.

   A. Is the lens converging or diverging? Explain. _____

   _____

   B. What is the focal length of the lens? _____

   Show your work in the space below.

5. Challenge: An object is placed 16 cm from a concave lens. An image is seen 4 cm away from the object. What is the focal length of the lens? Show your work below.