Thank you for agreeing to take part in this surface orientation study! If at any time you have any questions or concerns, feel free to contact:

These instructions will be shown during each trial. During this study, we will show you images of various three-dimensional objects and surfaces. **Orient the surface normal line as if it were a needle sticking straight out of the surface**. The location to draw on will be initially highlighted using a red box. When you move your mouse, the box will disappear. The length of the line you draw does not matter.

Move the mouse to move one end of the surface normal. The other end of the line is pinned to the object's surface. Click the mouse to place or unplace the surface normal. When you are satisfied with your placement, click Submit to move on to the next image.

There are no risks associated with this study.

We will begin with **five practice images**. At the end, you will be able to view your answers compared with others' answers.

In this example, the green line is the one you'll want to draw

Place your mouse here to indicate a line protruding from the cross Click to lock the line in place (click again to unlock)

When you are satisfied with your choice, click Submit below

/

In this example, the green line is the one you'll want to draw

Place your mouse here to indicate a line protruding from the cross

Click to lock the line in place (click again to unlock)

When you are satisfied with your choice, click Submit below

In this example, the green line is the one you'll want to draw

Place your mouse here \_\_\_\_\_ to indicate a line protruding from the cross

Click to lock the line in place (click again to unlock)

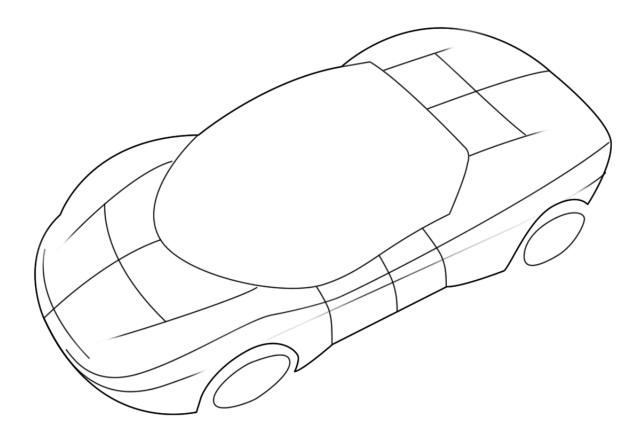
When you are satisfied with your choice, click Submit below

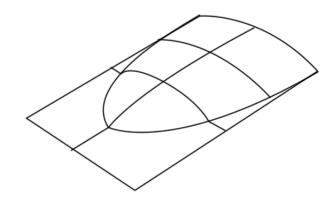
/

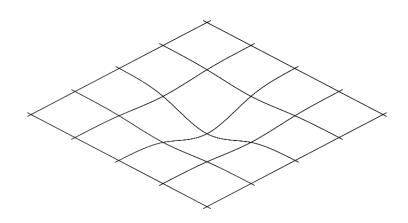
Move your mouse around and notice how the end of the line follows your mouse. Place your mouse here to indicate a line protruding from the surface Click to lock the line in place (click again to unlock) When you are satisfied with your choice, click Submit below

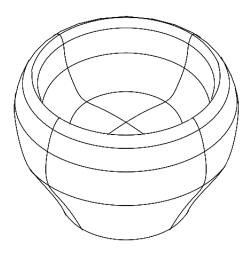
Move your mouse around and notice how the end of the line follows your mouse.

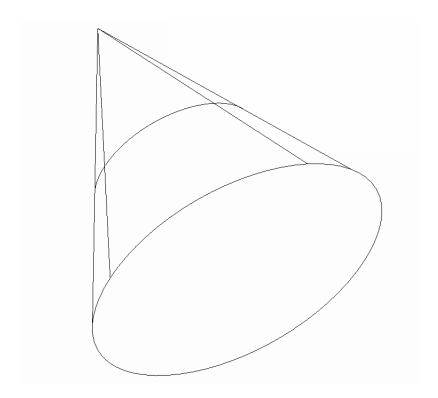
Click to lock the line in place Place your mouse here (click again to unlock) to indicate a line protruding from the side of the box When you are satisfied with your choice, click Submit below /

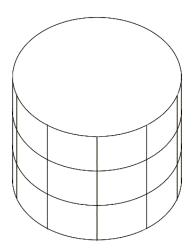


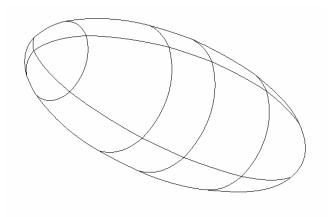


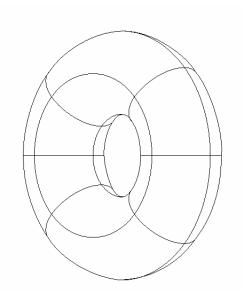


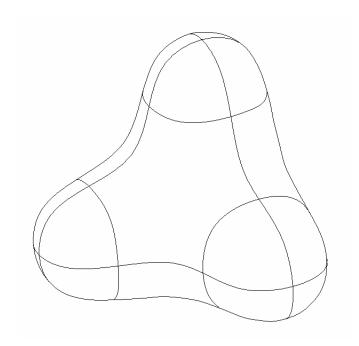


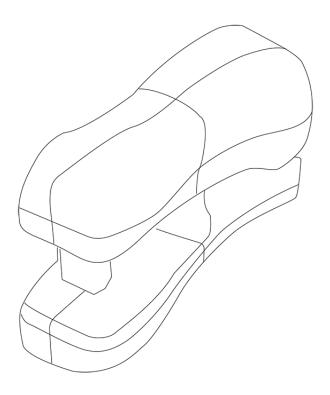


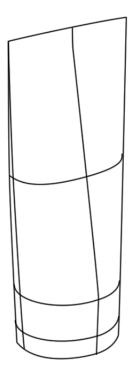


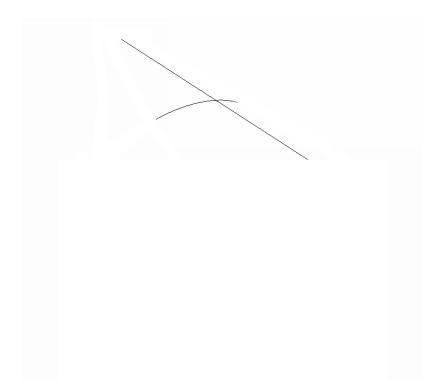




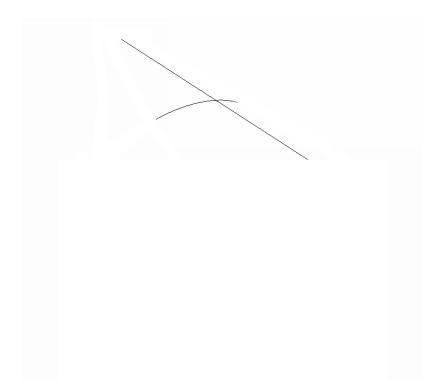


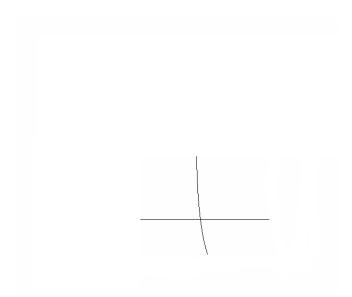




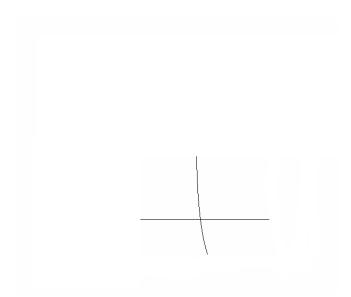


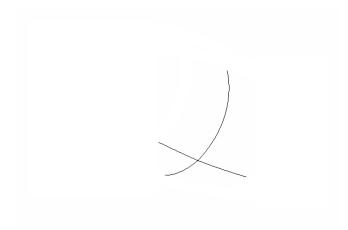






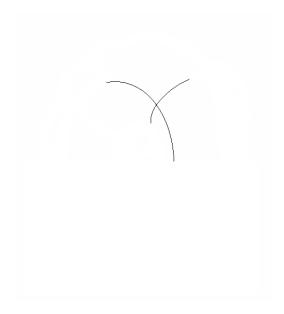
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