

## **Guided Practice**

Copy and complete on graph paper.

3 The management of a swimming pool built a springboard above the pool. The height of the springboard is a dilation of the depth of the pool with center at the origin, O, and scale factor  $-\frac{1}{3}$ .

The depth of the pool is 4.5 meters, represented by  $\overline{ST}$  on the coordinate plane. The floor is represented by the positive x-axis and the surface of the water is represented by the negative x-axis. Draw the location and height of the stand for the springboard,  $\overline{UV}$ , on a copy of this vertical cross section of the pool.

