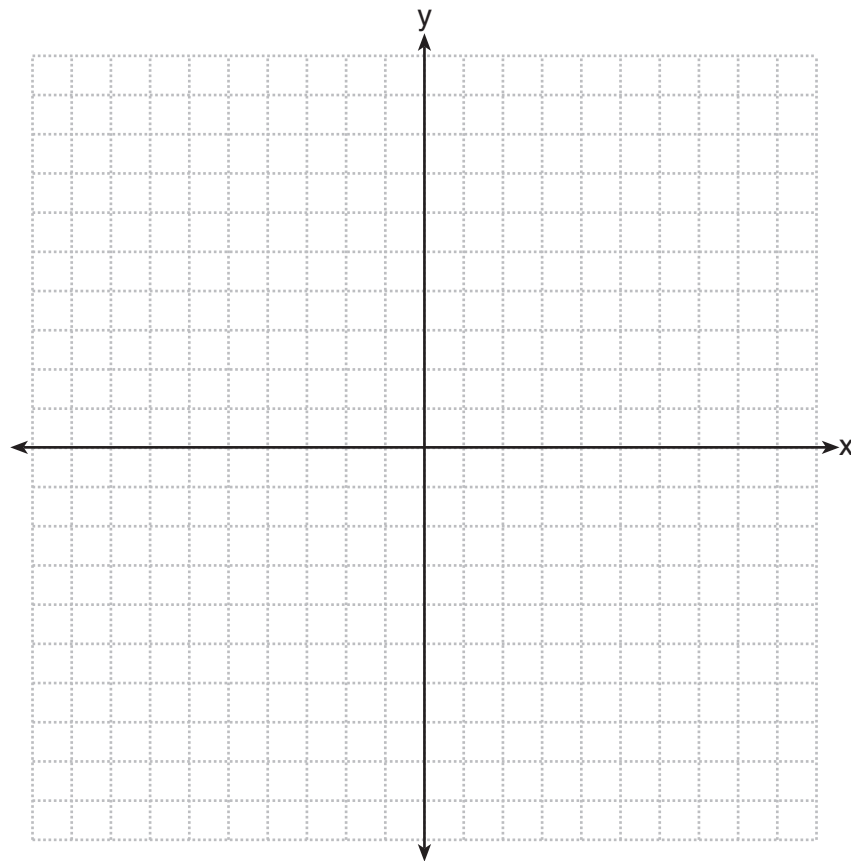


30 The coordinates of the vertices of $\triangle ABC$ are $A(1,2)$, $B(-4,3)$, and $C(-3,-5)$. State the coordinates of $\triangle A'B'C'$, the image of $\triangle ABC$ after a rotation of 90° about the origin.
[The use of the set of axes below is optional.]



31 A cylinder has a height of 7 cm and a base with a diameter of 10 cm. Determine the volume, in cubic centimeters, of the cylinder in terms of π .

32 The coordinates of the endpoints of \overline{FG} are $(-4,3)$ and $(2,5)$. Find the length of \overline{FG} in simplest radical form.

33 Using a compass and straightedge, construct a line perpendicular to \overline{AB} through point P .
[Leave all construction marks.]

