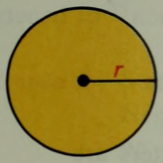
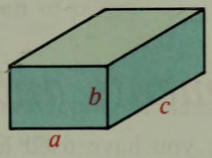
Circle



Circumference $= 2\pi r$

Area $= \pi r^2$

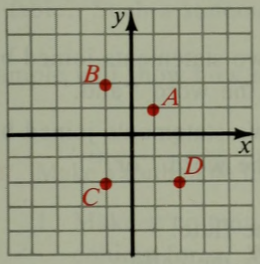
Rectangular Solid



Total area $= 2ab + 2bc + 2ac$

Volume $= abc$

Locating Points on a Grid (pages 113, 523–525)



The points shown are $A(1, 1)$, $B(-1, 2)$, $C(-1, -2)$, and $D(2, -2)$.

The distance d between points (x_1, y_1) and (x_2, y_2) is given by

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}.$$

An equation of the circle with center at the origin and radius r is $x^2 + y^2 = r^2$.