

1. Consider the surface $x^2 - y^2 - z^2 = 1$.

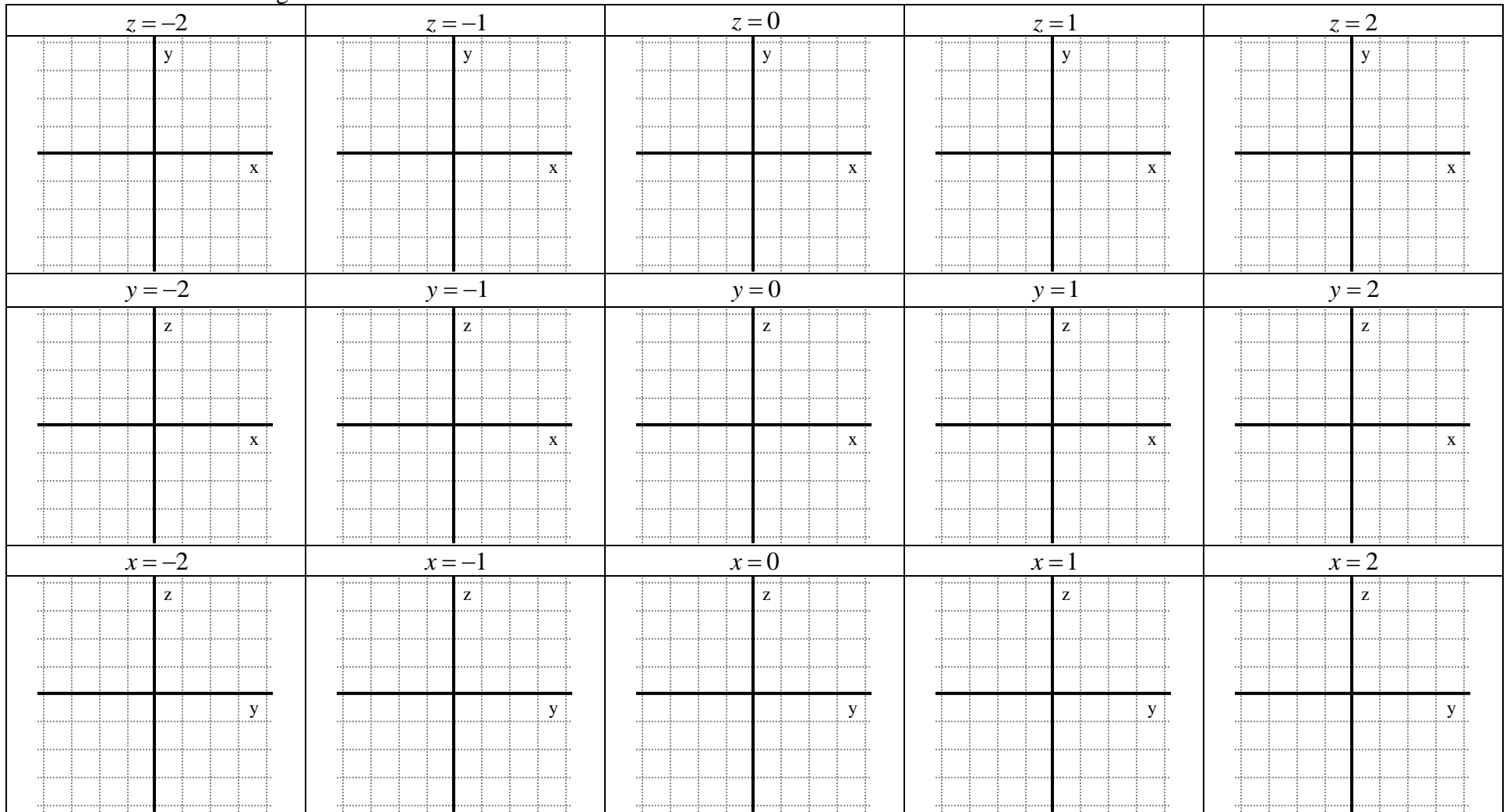
a. Sketch the following level curves for this surface.

$z = -2$	$z = -1$	$z = 0$	$z = 1$	$z = 2$
$y = -2$	$y = -1$	$y = 0$	$y = 1$	$y = 2$
$x = -2$	$x = -1$	$x = 0$	$x = 1$	$x = 2$

b. Use your sketches from above to draw this surface in three dimensions.

2. Consider the surface $z = x^2 - y^2$.

a. Sketch the following level curves for this surface.



b. Use your sketches from above to draw this surface in three dimensions.

FROM THE BOOK: p 810/2, 5-7