14.1, number 5: Find and sketch the domain of $f(x, y) = \sqrt{y - x - 2}$.

Answer: The domain of f is the set of points (x, y) in the xy-plane with $0 \le y - x - 2$.

Draw x + 2 = y in the *xy*-plane.

The domain of f is the set of points on or above the line x + 2 = y in the xy-plane.

There is a picture on the next page.

Picture 14,1 Number 5

The domain of f(x,g)= Jy-x-2 is the set of Points in the XX-Plane ON of above the liber Y=x+2.

