12.6, number 11: Which picture from (a)–(l) corresponds to

 $x^2 + 4z^2 = y^2?$

Answer:

When x = 0, the equation describes two lines in the *yz*-plane.

When y = 0, the equation describes one point in the *xz*-plane.

When z = 0, the equation describes two lines in the *xy*-plane.

The total graph is a cone. Whenever y is a non-zero constant, the graph is a circle. So all of the cross sections parallel to the xz-plane are circle. The answer is h.