

**D.** The reflection of the point  $(1, 0)$  in the line  $y = mx$  has coordinates

- (a)  $\left(\frac{m^2 + 1}{m^2 - 1}, \frac{m}{m^2 - 1}\right)$ ,      (b)  $(1, m)$ ,      (c)  $(1 - m, m)$ ,  
(d)  $\left(\frac{1 - m^2}{1 + m^2}, \frac{2m}{1 + m^2}\right)$ ,      (e)  $(1 - m^2, m)$ .