Falling bull
a)

$$\frac{1}{2}mv^2 = mgh = \frac{1}{2}v^2 = gh \qquad V = \sqrt{zgh}$$

$$e = -\frac{vfb}{vib} = -\frac{\sqrt{29h_i}}{\sqrt{-29h_o}} = \frac{\sqrt{29h_o}}{\sqrt{29h_o}} = \frac{h_i}{h_o}$$