

Current wealth.

$$w_5 = 7.875$$

Current bet.

$$x_6 = 6.5625$$

Outcome.

$$c_6 = -\nabla f(x_6) = 1$$

New wealth.

$$w_6 = w_5 + c_6 x_6 = 14.4375$$

New betting fraction.

$$\beta_7 = \frac{\sum_{i=1}^6 c_i}{7} = 0.85714\dot{2}$$

New bet.

$$x_7 = \beta_7 w_6 = 12.375$$