Current wealth.

$w_5 = 7.875$

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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.

$\beta_7 = \frac{\sum_{i=1}^{6} c_i}{7} = 0.\dot{8}5714\dot{2}$

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New bet.

$x_7 = \beta_7 w_6 = 12.375$

Legend: $f(x) = |x - 10|$