



**Current wealth.**

$$w_4 = 4.375$$


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**Current bet.**

$$x_5 = 3.5$$

**Outcome.**

$$c_5 = -\nabla f(x_5) = 1$$


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**New wealth.**

$$w_5 = w_4 + c_5 x_5 = 7.875$$

**New betting fraction.**

$$\beta_6 = \frac{\sum_{i=1}^5 c_i}{6} = 0.83$$


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**New bet.**

$$x_6 = \beta_6 w_5 = 6.5625$$