



**Current wealth.**

$$w_6 = 14.4375$$


---

**Current bet.**

$$x_7 = 12.375$$

**Outcome.**

$$c_7 = -\nabla f(x_7) = -1$$


---

**New wealth.**

$$w_7 = w_6 + c_7 x_7 = 2.0625$$

**New betting fraction.**

$$\beta_8 = \frac{\sum_{i=1}^7 c_i}{8} = 0.625$$


---

**New bet.**

$$x_8 = \beta_8 w_7 = 1.2890625$$