

Let w be print made, \times amount bide

$$E(w) = P(w = x - 100) \times (\oplus x - 100) + P(\omega = 0) \times 0.$$

$$= P(w = x - 100) \times (x - 100).$$

$$y = \min \text{ (the nard)}$$

$$P(\text{ win bid }) = P(w - X - 100)$$

$$= P(x < y).$$

$$= \left[\frac{1}{70} t \right]_x^{140}$$

$$= 2 - \frac{x}{70}.$$

$$E(n) = \left(2 - \frac{x}{70} \right) (x - 100)$$

$$= 2x - \frac{1}{70}x^2 - 200 + \frac{10}{7}x$$

$$\frac{d(10)}{dx} = 2 - \frac{1}{35}x + \frac{2^2}{7}$$

$$x = 2(35) + \frac{10}{7}(35)$$

$$= 120.$$