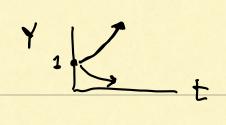
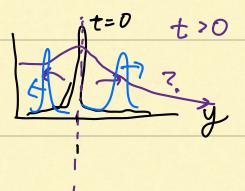
PS 6



Y(+) ?



R~ PR(r)

$$Y = g(R), Y \sim pr(y)$$

$$PY(y) = \frac{1}{y^{2}\sqrt{2\pi\sigma^{2}}} \cdot \frac{1}{2\pi} \left(\frac{-(\ln y)^{2}}{2\pi^{2}} \right)^{2}$$

$$= \frac{1}{y^{2}\sqrt{2\pi\sigma^{2}}} \cdot \frac{1}{y^{2}\sqrt{2\pi\sigma^{2}}} \cdot \frac{-\ln y}{2\pi^{2}}$$

$$= \frac{1}{y^{2}\sqrt{2\pi\sigma^{2}}} \cdot \frac{-\ln y}{2\pi^{2}\sqrt{2\pi\sigma^{2}}}$$

$$= \frac{1}{y^{2}\sqrt{2\pi\sigma^{2}}} \cdot \frac{\ln |y|^{2}}{2\pi^{2}\sigma^{2}}$$

$$= \frac{1}{y\sqrt{2\pi\sigma^{2}}} \cdot \frac{\ln |y|^{2}}{2\sigma^{2}\sigma^{2}}$$

$$= \frac{1}{y\sqrt{2}} \cdot \frac{\ln |y|^{2}}{2\sigma^{2}\sigma^{2}}$$

$$= \frac{1}{y\sqrt{2}} \cdot \frac{1}{y\sqrt{2}\sigma^{2}} \cdot \frac{1}{y\sqrt{2}\sigma^{2}\sigma^{2}}$$

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$$= \frac{1}{y\sqrt{2}} \cdot \frac{1}{y\sqrt{2}\sigma^{2}} \cdot \frac{1}{y\sqrt{2}\sigma^{2}} \cdot \frac{1}{y\sqrt{2}\sigma^{2}} \cdot \frac{1}{y\sqrt{2}\sigma^{2}}$$

$$= \frac{1}{y\sqrt{2}} \cdot \frac{1}{y\sqrt{2}\sigma^{2}} \cdot \frac{1$$

. .

