6.
$$P(x) = \begin{cases} \frac{\theta - d}{x^{\theta}}, x \ge d \\ 0, x < d \end{cases}$$

$$P(x) = \begin{cases} \frac{\partial}{\partial \theta} = 0 \end{cases}$$

$$P(x)$$

$$= \int_{0}^{1} \left(\frac{x - \theta}{\theta - 1} \right) - 2 \frac{\ln x}{x^{\theta}} + \left(\frac{\theta - 1}{\theta} \right) \frac{\ln^{2} x}{x^{\theta}} dx =$$

$$= \frac{1}{(\theta - 1)^{2}} - 2 \int_{0}^{1} \ln x d \left(\frac{1}{(\theta - 1)^{2}} \right) \frac{1}{(\theta - 1)^{2}} \frac{1}{x^{\theta}} dx =$$

$$= \frac{1}{(\theta - 1)^{2}} - 2 \int_{0}^{1} \ln x d \left(\frac{1 - \theta}{x^{2}} \right) \frac{1}{1 - \theta} dx +$$

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$$= \frac{1}{(\theta - 1)^{2}} - 2 \int_{0}^{1} \ln x d \left(\frac{1 - \theta}{x^{2}} \right) \frac{1}{x^{2}} \frac{1}{$$

$$\frac{t_{1}-1}{\sqrt{n}} = (1-0) \ln x = \frac{t_{2}-1}{\sqrt{n}}$$

$$\frac{t_{1}-\sqrt{n}}{\sqrt{n} \ln x} = \frac{t_{3}-\sqrt{n}}{\sqrt{n} \ln x}$$

$$1 - \frac{t_{2}-\sqrt{n}}{\sqrt{n} \ln x} = 0 = 1 - 0 = \frac{t_{3}-\sqrt{n}}{\sqrt{n} \ln x}$$

$$3) \text{ golo. unreploan } \text{ gnz. ueguanon}$$

$$\frac{\partial P}{\partial \theta} = \frac{(1-\theta \ln x + \ln x)}{x^{\theta}}$$

$$+ \int_{0}^{\infty} \frac{\partial P}{\partial \theta} dx = \int_{0}^{\infty} \frac{\partial P}{\partial \theta} dx + \frac{\pi}{2} x^{-\theta} dx = \frac{x^{-\theta}}{2} + \int_{0}^{\infty} \ln x \cdot d(x^{2-\theta}) = \frac{x^{-\theta}}{2} + \int_{0}^{\infty} \ln x \cdot d(x^{2-\theta}$$

$$\frac{\hat{\chi}}{\hat{\chi}} \frac{6.1}{\hat{\chi}} \frac{1}{\hat{\chi}} = \frac{-1}{\hat{\chi}} \frac{1}{\hat{\chi}} + 1 = \frac{1}{2}$$

$$\hat{\chi} = 2^{\frac{1}{2}-1}$$

$$\hat{\chi} = 2^{\frac{$$