Z wyktodu
$$E(x^k) = M_X^{(k)}(0)$$

$$M_X(t) = \frac{e^t + e^{-t} + 4}{6} = \frac{e^t}{6} + \frac{e^{-t}}{6} + \frac{4}{6}$$

$$M_{\times}^{\prime}(t) = \frac{e^{t}}{6} - \frac{e^{-\epsilon}}{6}$$

$$M_{x}''(t) = \frac{e^{t}}{6} + \frac{e^{-t}}{6}$$

$$M_{X}^{""}(t) = \frac{e^{t}}{6} - \frac{e^{-t}}{6}$$

:

$$M_{X}^{(k)}(t) = \frac{e^{t}}{6} + (-1)^{k} \frac{e^{-t}}{6}$$

Wheely
$$M_{x}^{(k)}(0) = \frac{1}{6} + \frac{(-1)^{k}}{6}$$