Exco 3 APIN 2014

1) powr
$$f(x) = 1$$

$$\int_{-1}^{1} f(x) dx = \int_{-1}^{1} dx = \left[x \right]_{-1}^{1} = 2$$

$$\int_{-1}^{1} f(x) dx = \int_{-1}^{1} dx = \left[x \right]_{-1}^{1} = 2$$

$$\Rightarrow E(x \to 1) = 0$$
powr $f(x) = x$

$$\int_{-1}^{1} f(x) dx = \int_{-1}^{1} x dx = \left[\frac{x^{2}}{2} \right]_{-1}^{1} = 0$$

$$\Rightarrow E(x \to x) = 0$$
powr $f(x) = x^{2}$

$$\int_{-1}^{1} f(x) dx = \int_{-1}^{1} x^{2} dx = \left[\frac{x^{3}}{3} \right]_{-1}^{1} = \frac{2}{3}$$

$$\Rightarrow E(x \to x^{2}) = 0$$

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$$\begin{cases} (x) = x^{3} \\ \int_{1}^{4} f(x) dx = \int_{1}^{4} x^{3} dx = \left[\frac{x^{4}}{4} \right]_{1}^{4} = 0 \\ \int_{1}^{4} f(x) dx = \int_{1}^{4} x^{4} dx = \left[\frac{x^{4}}{5} \right]_{1}^{4} = 0 \\ \int_{1}^{4} f(x) dx = \int_{1}^{4} x^{4} dx = \left[\frac{x^{5}}{5} \right]_{2}^{3} = \frac{1}{5} + \frac{1}{5} = \frac{2}{5} \\ \int_{1}^{3} f(-1) + \frac{4}{3} f(0) + \int_{1}^{4} f(1) = \frac{2}{3} dx = \frac{1}{5} + \frac{1}{5} = \frac{2}{5} \\ \int_{1}^{3} f(-1) + \frac{4}{3} f(0) + \int_{1}^{4} f(1) = \frac{2}{3} dx = \frac{1}{5} + \frac{1}{5} = \frac{2}{5} \\ \int_{1}^{3} f(-1) + \frac{4}{3} f(0) + \int_{1}^{4} f(1) = \frac{2}{3} dx = \frac{1}{5} + \frac{1}{5} = \frac{2}{5} \\ \int_{1}^{3} f(-1) + \frac{4}{3} f(0) + \int_{1}^{3} f(1) = \frac{2}{3} dx = \frac{1}{5} + \frac{1}{5} = \frac{2}{5} \\ \int_{1}^{3} f(1) + \int_{1}^{3} f(1) dx = \int_{1}^{3} f(1)$$

$$K_{3}(t) = \frac{b-t}{4} - \left(\begin{array}{c} 0 + \frac{t}{4}(t)^{3} & -\frac{1}{3}(1-t)^{3} \\ K_{3}(t) = \frac{b-t}{4} + \frac{1}{3}(1-t)^{3} = (1-t)^{3}(1-t)^{3} \\ K_{3}(t) = \frac{b-t}{4} + \frac{1}{3}(1-t)^{3} = (1-t)^{4}(1-t)^{3} \\ K_{3}(t) = \frac{(1-t)^{4}}{4} + \frac{1}{3}(1-t)^{3} \\ = \frac{(1-t)^{4}}{4} + \frac{1}{3}(1-t)^{3} \\ = \frac{(1-t)^{3}}{4} + \frac{1}{3}(1-t)^{3} \\ = \frac{(1-t)^{3}}{4} + \frac{1}{3}(1-t)^{3} \\ = \frac{(1-t)^{3}}{4} + \frac{1}{3}(1-t)^{3} \\ = \frac{(1-t)^{4}}{4} + \frac{1}{3}(1-t)^{3} \\ = \frac{$$