Let
$$f(x) = \sin(x)$$

- 1. Find the linear approximation L(x) of f(x) at x = 0
- 2. Use your linear approximation to estimate sin(0.25)

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Let
$$f(x) = e^x$$

- 1. Find $P_5(x)$, the fifth order Taylor Polynomial for f(x) at x = 0.
- 2. Use P_5 to approximate e = f(1).

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2 / 2