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## **EX.0.5.5**, Sauer

Find the Taylor polynomial of degree 5 about the point x = 0 for the following functions:

(a) 
$$f(x) = e^{x^2}$$
 (b)  $f(x) = \cos(2x)$  (c)  $f(x) = \ln(1+x)$  (d)  $f(x) = \sin 2x$