
MATH 1 LECTURE 26 EXERCISES

WEDNESDAY 11-09-16

(1) For the following assume $a = 0$ and find $T_3(x)$:

(a) $f(x) = \frac{1}{1-x}$

Solution:

<https://goo.gl/3Cy5BD>

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

Solution:

<https://goo.gl/bdbCk0>

(c) $f(x) = \ln(1+x)$

Solution:

<https://goo.gl/mbstpR>

(d) $f(x) = xe^x$

Solution:

<https://goo.gl/vDjX7A>

(2) Find $T_4(x)$ for the following:

(a) $f(x) = x^5 + 2x^3 + x$, $a = 2$

Solution:

<https://goo.gl/22MEz0>

(b) $f(x) = e^{2x}$, $a = 3$

Solution:

<https://goo.gl/gr6XBz>

(c) $f(x) = \sin(x)$, $a = \pi$

Solution:

<https://goo.gl/x7Mn7E>

(d) $f(x) = \sqrt{x}$, $a = 16$

Solution:

<https://goo.gl/9RphS1>