



Differential Equations Assignment 9

Determine if the functions are linearly independent or linearly dependent over $(-\infty, \infty)$.

(a) $f_1(x) = x, f_2(x) = x^2, f_3(x) = 2x - 6x^2$

(b) $f_1(x) = 6 + x, f_2(x) = x, f_3(x) = x^2$



Solutions to Assignment 9

(a) linearly dependent

(b) linearly independent