

This assignment is in two parts. The first part is due at the start of class on Day 8. It will not be collected, but you are expected to complete these exercises, just to practice basic skills. If you feel that you need more practice, then do more problems or talk to me.

14.1 Exercises 4, 6, 9, 14, 19, 20, 26, 29, 37, 39, 42, 43

The second part is due on paper at the start of class on Day 11. Submit polished solutions, including all necessary work and no unnecessary work, in the order assigned.

A. 14.1 Exercise 48. (By the way, do you know how to integrate this function with respect to x , regarding t as a constant? Think about that, but don't hand it in.)

B. Here is a table of temperature x (in Fahrenheit) and humidity y (in %) versus the perceived temperature z (in Fahrenheit). Make a contour plot of z as a function of x and y , on the relevant part of the x - y -plane. Your z -contours should be spaced 10 apart, from $z = 80$ to $z = 140$. Also make a 3D graph of the function, in the style of Figures 20-23 in Section 14.1.

	$y = 20$	30	40	50	60	70
$x = 80$	77	78	79	81	82	83
85	82	84	86	88	90	93
90	87	90	93	96	100	106
95	93	96	101	107	114	124
100	99	104	110	120	132	144