Homework 9

IMPORTANT NOTE:
Use the PDF problem set posted to the course website; its problem numbering differs from the textbook.

Recitation problems (ungraded)

Attempt these before recitation. We will use recitation to work through selected solutions and the ideas behind them; they are chosen to prepare you for the graded problems below.

(1) DMC Problem 17.18 (a).
(2) DMC Problem 17.19 (a), (b).
(3) DMC Problem 17.25.
(4) DMC Problem 17.29 (a), (b).
(5) DMC Problem 17.31 (a).
(6) DMC Problem 18.9.
(7) DMC Problem 18.12.
(8) DMC Problem 18.15 (b).
(9) DMC Problem 18.20 (a), (b), (d).
(10) DMC Problem 18.33 (o).

Problems to submit (100 points)

Show your work and explain your reasoning. A correct answer without adequate justification may receive little or no credit. Write in complete, grammatically sound sentences and submit legible work. The number in square brackets is the number of points each problem is worth. Exact expressions involving factorials, powers, or binomial coefficients are acceptable.

(1) **[8]** DMC Problem 17.16 (e).
(2) **[12]** DMC Problem 17.18 (b)(i).
(3) **[12]** DMC Problem 17.27.
(4) **[10]** DMC Problem 17.32 (a).
(5) **[14]** DMC Problem 17.34 (a), (b). [9 and 5 points, respectively.]
(6) **[14]** DMC Problem 18.13 (a), (b). [9 and 5 points, respectively.]
(7) **[10]** DMC Problem 18.16 (b)(ii).
(8) **[6]** DMC Problem 18.22.
(9) **[8]** DMC Problem 18.32.
(10) **[6]** DMC Problem 18.44.