

MATH 127 HOMEWORK
SPRING 2009
STAN VERNOOY

The homework problems are listed below in order by the chapter and section numbers, which is not necessarily the order in which the sections will be covered in class.

NOTE: Homework on use of the calculator and on Conic Sections will be on a separate handout.

Even-numbered problems are marked with an asterisk, and the answers are at the end of this handout.

Section 5.1, pp. 371 - 374:

11, 17, 19, 35, 37, 39, 43, 47, 49, 51, 53, 57, 61, 63, 69, 71, 73, 75, 79, 83, 85, 87, 89, 91, 95, 97, 111.

Section 5.2, pp. 383 - 386:

5, 11, 16*, 19, 21, 25, 31, 33, 37, 39, 43, 51, 53, 55, 57, 65, 67.

Section 5.3, pp. 393 - 397:

9, 15, 17, 19, 25, 29, 37, 39, 41, 43, 49, 51, 55, 59, 63, 69, 73.

Section 5.4, pp. 406 - 407:

11, 15, 19, 21, 23, 25, 29, 33, 37, 39, 41, 45, 53, 57, 59, 63, 69, 73, 75, 81, 83, 89, 91, 95, 97, 101, 103, 115.

Section 5.5, pp. 416 - 417:

9, 13, 15, 19, 21, 25, 31, 35, 37, 43, 47, 49, 53, 55, 61, 65, 73, 79, 85.

Section 5.6, pp. 428 - 432:

9, 11, 13, 15, 25, 33, 41, 43, 45, 61, 63, 67, 71, 73, 75, 81, 91.

Section 5.7, pp. 437 - 439:

21, 25, 37, 39, 45, 53.

Section 5.8, pp. 447 - 450:

3, 7, 11, 17, 21, 25.

Section 6.1, pp. 469 - 472:

9, 13, 17, 23, 25, 29, 31, 37, 39, 45, 47, 49, 55, 57.

Section 6.2, pp. 476 - 477:

9, 11, 21, 23, 27, 29, 57, 63.

Section 6.3, pp. 483 - 484:

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Section 6.4, pp. 492 - 494:

21, 23, 27, 31, 35, 37, 41, 45, 51, 57, 63, 69, 73, 79, 83, 87.

Section 6.5, pp. 501 - 503:

7, 11, 17, 19, 25, 29, 39, 47, 53, 59, 65, 69, 73, 79, 81, 91.

Section 6.6, p. 506:

1, 5, 9, 11, 13, 19, 25, 33, 37.

Section 6.7, pp. 510 - 513:

7, 13, 21, 27, 29, 31, 37, 41, 47, 49, 53, 65.

Section 6.8, pp. 518 - 520:

7, 13, 19, 23, 29, 35, 41, 47, 53, 59, 63, 65.

Section 7.1, pp. 531 - 532:

9, 13, 17, 19, 25, 29.

Section 7.2, pp. 539 - 543:

9, 11, 23, 25, 31, 33, 37, 39, 41, 51.

Section 7.3, pp. 547 - 549:

11, 15, 19, 25, 29, 33, 35, 39.

Section 8.1, pp. 578 - 580:

7, 19, 27, 31, 39, 45, 51, 55, 59, 65, 67, 73, 75, 81.

Section 8.4, pp. 613 - 614:

7, 9, 15, 17, 19, 21, 27, 33, 37, 41, 43, 45, 49, 55, 59, 61, 65.

Section 8.5, pp. 621 - 622:

11, 13, 15, 19, 23, 25, 29.

Section 10.5, p. 771:

5, 9, 13, 15, 19, 21, 35, 45.

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ANSWER TO EVEN-NUMBERED PROBLEM:

$$5.2 \#16: \sin \theta = \frac{3}{4}, \cos \theta = \frac{\sqrt{7}}{4}, \tan \theta = \frac{3}{\sqrt{7}}, \sec \theta = \frac{4}{\sqrt{7}}, \csc \theta = \frac{4}{3}, \cot \theta = \frac{\sqrt{7}}{3}$$