

MATH 132 HOMEWORK 5

- (5.3) 5, 12, 16*

*See Example 2

- (5.5) 3, 5

- (5.6) 2, 5abce, 12

- (6.1) 3

After you've done 3abc by hand, feel free to use technology (e.g. wolframalpha.com) to compute residues; this can get tedious. Just make sure you're comfortable computing residues by hand for the final exam.

- (6.3) 2, 4, 6, 11

Extra Practice (do not turn in):

(5.3) 2, 3, 4 (5.5) 2, 7 (5.6) 1, 6, 7, 18

(6.1) 1, 5, 6, 7 (6.3) 1, 3, 5

*Problems 14–19 in (6.3) are very cool. Working through them will not help you at all on the final exam in this class, but if you're interested in number theory at all, you might glance at them and try to work through a few.