

ICS 6D—Winter 2024 (Dillencourt)
Homework 5

1. Zybook exercise 9.1.2, part (b)
2. Zybook exercise 9.1.3, parts (a), (b), (c), and (d)
3. Zybook exercise 9.1.4, parts (b) and (d)
4. Zybook exercise 9.2.1, parts (b) and (d)
5. Zybook exercise 9.2.2, part (b)
6. Zybook exercise 9.2.3, part (b)
7. Zybook exercise 9.2.5, part (a)
8. Zybook exercise 9.3.1, part (f)
9. Zybook exercise 9.3.2, parts (b) and (e)

On the following two questions, show all the steps. Use the solution of other parts of the question with visible solutions as a model.

On the test you are likely to see similar questions. On these questions, if we don't see evidence that you understand Euclid's algorithm and the extended Euclidean algorithm, you could get a zero even if you correctly write down the gcd or the linear combination. So we recommend you practice showing your work in a style consistent with that in the ZyBook as you do these questions.

10. Zybook exercise 9.5.1, part (b)
11. Zybook exercise 9.5.1, part (c)