IM1H Book 1 Selected Answers

Mr. Spence

June 2025

- 1. (a) $A_{ABCD} = 25$, $A_{BCEF} = 9$
 - (b) -
 - (c) -
 - (d) A = 34
 - (e) $l = \sqrt{34}$
 - (f) -
- 2. $l = 4\sqrt{5}$
- 3. Yes
- 4. –
- 5. –
- 6. $AB = \sqrt{41}$
- 7. $l = 5\sqrt{2}$
- 8. $l = \sqrt{5}$, No
- 9. 12
- 10. (12, 2), (2, 2)
- 11. No
- 12. $d = 10\sqrt{2}$
- 13. (a) C = (5,0). Answers may vary.
 - (b) D = (5, 1). Answers may vary.
 - (c) x = 5
 - (d) -
- 14. (a) 13, 17, 13, 17
 - (b) -

- 15. (a) $AP = BP = 2\sqrt{5}$
 - (b) (3,5), (2,2), (4,8). Answers may vary.
 - (c) No
 - (d) y = 3(x-2) + 2
- 16. (10,3), (-6,3)
- 17. -
- 18. (a) (0,0), (6,0). Answers may vary.
 - (b) (0,4), (4,2). Answers may vary.
 - (c) (0,4),(2,2). Answers may vary.
- 19. $AB = BC = \sqrt{10}$
- 20. C = (6,3). Infinite. Answers may vary for C.