

WORKʃHEET

Find the slope of the line given two collinear points.

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| 1. $P_1(10, 21), P_2(8, 14)$ | 13. $P_1(5, 15), P_2(13, 4)$ | 25. $P_1(14, 21), P_2(3, 3)$ |
| 2. $P_1(9, 25), P_2(25, 19)$ | 14. $P_1(14, 23), P_2(8, 4)$ | 26. $P_1(20, 13), P_2(25, 24)$ |
| 3. $P_1(13, 24), P_2(4, 10)$ | 15. $P_1(20, 17), P_2(10, 25)$ | 27. $P_1(18, 6), P_2(6, 5)$ |
| 4. $P_1(22, 5), P_2(4, 21)$ | 16. $P_1(19, 9), P_2(15, 16)$ | 28. $P_1(6, 9), P_2(23, 20)$ |
| 5. $P_1(17, 24), P_2(15, 1)$ | 17. $P_1(17, 20), P_2(24, 23)$ | 29. $P_1(14, 25), P_2(3, 23)$ |
| 6. $P_1(20, 10), P_2(23, 2)$ | 18. $P_1(2, 22), P_2(16, 13)$ | 30. $P_1(7, 4), P_2(2, 21)$ |
| 7. $P_1(11, 20), P_2(23, 5)$ | 19. $P_1(11, 15), P_2(12, 10)$ | 31. $P_1(16, 7), P_2(22, 5)$ |
| 8. $P_1(11, 12), P_2(5, 15)$ | 20. $P_1(7, 4), P_2(21, 8)$ | 32. $P_1(12, 7), P_2(8, 7)$ |
| 9. $P_1(12, 3), P_2(7, 9)$ | 21. $P_1(22, 10), P_2(17, 24)$ | 33. $P_1(18, 7), P_2(4, 8)$ |
| 10. $P_1(8, 21), P_2(12, 13)$ | 22. $P_1(4, 14), P_2(24, 23)$ | 34. $P_1(25, 15), P_2(8, 21)$ |
| 11. $P_1(8, 6), P_2(3, 22)$ | 23. $P_1(16, 2), P_2(7, 19)$ | 35. $P_1(15, 15), P_2(16, 15)$ |
| 12. $P_1(3, 23), P_2(13, 13)$ | 24. $P_1(2, 20), P_2(1, 6)$ | 36. $P_1(17, 10), P_2(15, 9)$ |

— Answers —

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| 1. $m = 7/2$ | 13. $m = -11/8$ | 25. $m = 18/11$ |
| 2. $m = -3/8$ | 14. $m = 19/6$ | 26. $m = 11/5$ |
| 3. $m = 14/9$ | 15. $m = -4/5$ | 27. $m = 1/12$ |
| 4. $m = -8/9$ | 16. $m = -7/4$ | 28. $m = 11/17$ |
| 5. $m = 23/2$ | 17. $m = 3/7$ | 29. $m = 2/11$ |
| 6. $m = -8/3$ | 18. $m = -9/14$ | 30. $m = -17/5$ |
| 7. $m = -5/4$ | 19. $m = -5$ | 31. $m = -1/3$ |
| 8. $m = -1/2$ | 20. $m = 2/7$ | 32. $m = 0$ |
| 9. $m = -6/5$ | 21. $m = -14/5$ | 33. $m = -1/14$ |
| 10. $m = -2$ | 22. $m = 9/20$ | 34. $m = -6/17$ |
| 11. $m = -16/5$ | 23. $m = -17/9$ | 35. $m = 0$ |
| 12. $m = -1$ | 24. $m = 14$ | 36. $m = 1/2$ |