

# WORKSHEET

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. $m = 1/2$   |