



Practice Masters Level A

5.5 The Standard and Point-Slope Forms

Write each equation in standard form.

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| 1. $6x = 4y + 20$ _____ | 2. $-2x = 5y + 16$ _____ |
| 3. $5x = -10y + 3$ _____ | 4. $8x - 21y + 13 = 0$ _____ |
| 5. $19x + y - 2 = 0$ _____ | 6. $14y = 2x + 18$ _____ |
| 7. $9y = 12x - 35$ _____ | 8. $12x - 34y - 25 = 0$ _____ |
| 9. $3x = -5y + 1$ _____ | 10. $10x + 2y - 8 = 0$ _____ |

Write an equation in point-slope form for the line that has the given slope and that contains the given point.

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| 11. slope 7, (1, 8) _____ | 12. slope 2, (4, 0) _____ |
| 13. slope 4, (7, 2) _____ | 14. slope 5, (6, 3) _____ |
| 15. slope 3, (8, 4) _____ | 16. slope 10, (5, 1) _____ |

Find the x - and y -intercepts for the graph of each equation.

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| 17. $5x + 2y = 10$ _____ | 18. $3x + 2y = 12$ _____ |
| 19. $6x + 10y = 30$ _____ | 20. $2x + y = 14$ _____ |
| 21. $x + 5y = 15$ _____ | 22. $7x + 3y = 21$ _____ |
| 23. $10x - 3y = 30$ _____ | 24. $9x + 2y = 36$ _____ |

Write an equation in point-slope form for the line that contains each pair of points.

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| 25. (5, 4), (7, 12) _____ | 26. (1, 3), (2, 8) _____ |
| 27. (7, 14), (4, 2) _____ | 28. (6, 4), (10, 20) _____ |

Write an equation in standard form for the line that contains each pair of points.

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| 29. (2, 9), (1, 3) _____ | 30. (5, 22), (3, 12) _____ |
| 31. (9, 8), (4, 7) _____ | 32. (5, 8), (2, 2) _____ |