Name

Class

Date



Standard Form

5-5

**Practice**

*Form G*

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

|  |  |  |  |
| --- | --- | --- | --- |
| **1.** | *x +* *y =*7 | **2.** | *x* − 3*y =* 9 |
| **3.** | 2*x +* 3*y =* −6 | **4.** | −4*x* − 2*y =* −8 |
| **5.** | 5*x* − 4*y =* −12 | **6.** | −2*x +* 7*y =* 11 |

**Draw a line with the given intercepts.**

|  |  |  |
| --- | --- | --- |
| **7.** *x*-intercept: 4 *y*-intercept: 5 | **8.** *x*-intercept: −3 *y*-intercept: 1 | **9.** *x*-intercept: −6 *y*-intercept: −8 |

**Graph each equation using *x*- and *y*-intercepts.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **10.** | −5*x +* *y =* −10 | **11.** | −3*x* − 6*y =* 12 | **12.** | 4*x* − 12*y =* −24 |

**For each equation, tell whether its graph is a *horizontal* or a *vertical* line.**



|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **13.** | *y =* −2 | **14.** | *x =* 0 | **15.** | *y =* −0.25 | **16.** | *x =* |

**Graph each equation.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **17.** | *y =* 6 | **18.** | *x =* −2 | **19.** | *y =* −7 | **20.** | *x =*3 |

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**43**

Name

Class

Date



5-5

Standard Form

**Practice** (continued)

*Form G*

**Write each equation in standard form using integers.**

|  |  |
| --- | --- |
| **21.** *y = x −*4 | **22.** *y* − 4 = 5(*x* − 8) |
| **23.** *y +* 6 *= −*3*(x +* 1*)* | **24.***y = –x +* 2 |
| **25.** *y = x* −10 | **26.** *y −* 3 *=* (*x +* 4) |

**27.** You have only nickels and dimes in your piggy bank. When you ran the coins through a change counter, it indicated you have 595 cents. Write and graph an equation that represents this situation. What are three combinations of nickels and dimes you could have?

**For each graph, find the *x*- and *y*-intercepts. Then write an equation in standard form using integers.**



**Find the *x*- and *y*-intercepts of the line that passes through the given points.**

|  |  |  |
| --- | --- | --- |
| **30.** (4, −2), (5, −4) | **31.** (1, 1), (−5, 7) | **32.** (−3, 2), (−4, 10) |

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**44**