Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_ Per \_\_\_ Date \_\_\_\_\_\_\_

**4.5A Homework** – Equations in Standard Form: X- and Y-Intercepts

*Find the x- & y-intercepts of each equation*

|  |  |
| --- | --- |
| 1. $$x+2y=18$$x-intercept: \_\_\_\_\_ y-intercept: \_\_\_\_\_\_ | 2. $$3x-y=9$$x-intercept: \_\_\_\_\_ y-intercept: \_\_\_\_\_\_ |
| $$-2x-3y=-12$$x-intercept: \_\_\_\_\_ y-intercept: \_\_\_\_\_\_ | 4.$$-8x+4y=40$$x-intercept: \_\_\_\_\_ y-intercept: \_\_\_\_\_\_ |

Continued on back

Find the x- and y-intercepts. Then graph the linear equations using the intercepts.

|  |  |
| --- | --- |
| 5.$$x+y=2$$Image result for graphx-intercept: \_\_\_\_\_ y-intercept: \_\_\_\_\_ | 6.$$5x-3y=15$$Image result for graphx-intercept: \_\_\_\_\_ y-intercept: \_\_\_\_\_ |
| 7. $$4y=3x+12$$Image result for graphx-intercept: \_\_\_\_\_ y-intercept: \_\_\_\_\_ | 8.$$2x+y=-8$$Image result for graphx-intercept: \_\_\_\_\_ y-intercept: \_\_\_\_\_ |

Solutions: 1. (18, 0), (0, 9) 2. (3, 0), (0, -9) 3. (6, 0), (0, 4) 4. (-5, 0), (0, 10) 5. (2, 0), (0, 2) 6. (3, 0), (0, -5)

7. (-4, 0), (0, 3) 8. (-4, 0), (0, -8)