**NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD \_\_\_\_\_**

# 6.1 – CHANGING TO THE FORM $y=mx+b$

**Determine the slope and y-intercept of each line, then graph.**

|  |  |
| --- | --- |
| 1. $x+y=8$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ | 2. $2x+y=6$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ |
| 3. $3x-y=6$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ | 4. $2x-y=-4$ $m=$ \_\_\_\_\_ $b= $\_\_\_\_\_ |
| 5. $3x+y=9$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ | 6. $2x+y=-4$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ |

|  |  |
| --- | --- |
| 7. $3x-5y=10$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ | 8. $4x-3y=9$ $m= $\_\_\_\_\_ $b=$ \_\_\_\_\_ |
| 9. $x+5y=5$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ | 10. $6x+4y=8$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ |
| 11. $2y=3x$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ | 12. $4y=-8x$ $m=$ \_\_\_\_\_ $b=$ \_\_\_\_\_ |

**Which ordered pairs are solutions of each equation? (circle solutions)**

13. $y=3x$ a) $\left(6, 2\right)$ b) $\left(-2, -6\right)$ c) $\left(0, 0\right)$ d) $\left(-15, -5\right)$

14. $x-3y=-7$ a) $\left(2, -1\right)$ b) $\left(2, 4\right)$ c) $\left(-1, 2\right)$ d) $\left(2, 3\right)$

15. $3x+3y=0$ a) $\left(1, -1\right)$ b) $\left(2, -2\right)$ c) $\left(-1, 1\right)$ d) $\left(-2, 2\right)$