**Name:**

**Functions Unit Review**

**Section 1 🡪**

Complete the input-output tables for the following functions.

|  |  |
| --- | --- |
| $$x$$ | $$y$$ |
| 1 |         |
| 2 |       |
| 3 |       |
| 5 |       |
| 10 |       |

**1.** $y=f\left(x\right)=3x+2$ **2.** $y=f\left(x\right)=20-3x$

|  |  |
| --- | --- |
| $$x$$ | $$y$$ |
|  1 |         |
| 2 |       |
| 3 |       |
| 5 |       |
| 10 |       |

**3.** $y=f\left(x\right)=-x$ **4.** $y=f\left(x\right)=\left|x\right|+3$

|  |  |
| --- | --- |
| $$x$$ | $$y$$ |
| 1 |         |
| 2 |       |
| 0 |       |
| $$-1$$ |       |
| $$-2$$ |       |

|  |  |
| --- | --- |
| $$x$$ | $$y$$ |
| 1 |         |
| 5 |       |
| 0 |       |
|  $-1$ |       |
| $$-5$$ |       |

**State whether or not these tables represent a function and why.**

**5. 6.**

**7. 8.**

**Write the following equations as functions.**

**9.** $y+4x=16$ **10.** $y-7x=10$ **11.** $-15x+y=4$

$y=$      $y=$      $y=$

**12.** $3x+y=17$ **13.** $2y+6x=40$ **14.** $-6x+3y=18$

$y=$      $y=$      $y=$

**Are these graphs functions or not?**

**15. 16.**

**17. 18.**