**HM3 HW – GRAPHING STEP FUNCTIONS**  NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Graph the following step functions. Fill out an x/y chart to create ordered pairs. Describe the transformations from the parent graph.*

1. $f\left(x\right)= \frac{1}{2}\left⌊x\right⌋$ 2. $g\left(x\right)= -\left⌊x+2\right⌋$

y

x

y

x

3. $h\left(x\right)= \left⌊2x\right⌋-4$ 4. $f\left(x\right)= \left⌈\frac{1}{2}x\right⌉+3$

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y

x

y

x

5. $g\left(x\right)=\left⌈-x\right⌉-4$ 6. $h\left(x\right)=-\frac{1}{3}\left⌈x-1\right⌉$

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y

x

y

x

***Given that*** $f\left(x\right)= \left⌊x\right⌋$ ***is the parent function, describe the transformation of g(x).***

7.$g\left(x\right)= \left⌊\frac{1}{2}x+2\right⌋$ 8. $g\left(x\right)= -\left⌊x\right⌋+4$

***Given that*** $f\left(x\right)= \left⌈x\right⌉$ ***is the parent function, describe the transformation of g(x).***

9. $g\left(x\right)= 2\left⌈x\right⌉-7$ 10. $g\left(x\right)=-\left⌈4x\right⌉$