Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_

**HW 5-8A Graphing & Translating Absolute Value Functions**

Describe the Translation from $y=\left|x\right|$ & Write the equation

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Question 1**Describe translation:Equation: |  | **Question 2**Describe translation:Equation: |

Graph the Absolute Value Functions below. Label equation, vertex & describe translation

|  |  |  |  |
| --- | --- | --- | --- |
| **3.** *y =* |*x|* + 2 | **4.** *y =* |*x|* – 5 | **5.** *y =* | *x |* – 3 | **6.** *y =* | *x |* + 1.5 |
|  |  |  |  |
| **7.** *y =* |*x +* 7| | **8.** *y =* |*x* - 4| | **9.** *y =* |*x +* 5| | **10.** *y =* |*x* - 3| |
|  |  |  |  |
| **11.** *y =* |*x +* 1| – 4 | **12.** *y =* |*x –* 3| + 2 | **13.** *y =* |*x –*1| – 3 | **14.** *y =* |*x +* 2| + 1 |
|  |  |  |  |
| **15.** *y =* |*x +* 1| + 5 | **16.** *y =* |*x –* 2| + 2 | **17.** *y =* |*x –* 4| – 2 | **18.** *y =* |*x +* 5| – 1 |
|  |  |  |  |