Algebra 2

 **Absolute Value Graphs – Transformations**

**For #1 – 9 graph the given function using transformations of the parent function** $y=|x|$





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**7)** $y=|2\left(x+5\right)|$ **8)** $y=\left|\frac{1}{2}\left(x-1\right)\right|-3$

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**9)** $y=\left|\frac{2}{3}\left(x+3\right)\right|+2$

**Describe the transformation:**

**10)** $y=-\left|x-6\right|+2$

**11)** $y=\frac{1}{2} \left|x+2\right)-1$

**12)** $y=-4\left|x+7\right|+23$

**Write an AbVal function to describe each transformation**

**13)** vertex @ $\left(3, -5\right)$, opening down, stretched by a factor of 2

**14)** vertex moved left 9, up 4, compressed by a factor of $\frac{3}{5}$

**15)** vertex @ $(0, 3)$, opening up, stretched by a factor of 31