**HM3 – GRAPHING SINE, COSINE, AND TANGENT** NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Explain the transformation of each graph, then graph each function from* $-2π to 2π$*.*

1. $y=-2cosϑ+1$ 2. $y=\sin(\left(ϑ-π\right))-2$

3. $y=cos2ϑ-1$ 4. $y=-\frac{1}{2}sinϑ+3$

5. $y=3cos⁡(ϑ+\frac{π}{2})+1$ 6. $y=4sin\frac{1}{2}ϑ$

7. $y=tanϑ+2$ 8. $y=\tan(\left(ϑ-\frac{3π}{2}\right))-1$

9. $y=-sin⁡(4ϑ-\frac{π}{2})$ 10. $y=3cos⁡\frac{ϑ}{4}$