Answers to the Quadratic Functions Test REVIEW:

Please use these answers to CHECK your work. You will not get credit for the assignment if you only have answers. SHOW your work. You MUST show work for the test.

1. $x=1 \pm 2i\sqrt{6}$
2. $x=5 \pm 2\sqrt{7}$
3. $x= \frac{-1 \pm i\sqrt{7}}{2}$
4. $x= -2 \pm 2i$
5. $x= \frac{-7 \pm \sqrt{13}}{6}$
6. $x=8, x=1$
7. $x= \frac{3}{5}$
8. $x=2 \pm i$
9. $x=1 \pm \frac{2\sqrt{10}}{5}$
10. $x= \frac{-3 \pm i\sqrt{47}}{2}$
11. $AOS=1$ $Vertex=(1,-8)$ $Y-Int= -6 f\left(x\right)=2\left(x-1\right)^{2}-8 $
12. $AOS=3$ $Vertex=(3, 8)$ $Y-Int= -1 f\left(x\right)= -\left(x-3\right)^{2}+8$
13. $AOS=1.5$ $Vertex=\left(1.5,-.25\right) Y-Int= 2 f\left(x\right)= \left(x-1.5\right)^{2}-.25 $
14. $AOS=2 Vertex=\left(2, 16\right) Y-Int= 4 f\left(x\right)= -3\left(x-2\right)^{2}+16 $
15. $AOS=1$ $Vertex=\left(1, 7\right) Y-Int= 8 f\left(x\right)= \left(x-1\right)^{2}+7 $