

Unit 3 HW #6

1. $f(x) = (x-6)^2$; $(6, 0)$
2. $f(x) = (x+2)^2 - 5$; $(-2, -5)$
3. $f(x) = (x-1)^2 + 4$; $(1, 4)$
4. $f(x) = 3(x+1)^2 - 7$; $(-1, -7)$
5. $f(x) = (x + \frac{7}{2})^2 - \frac{89}{4}$; $(-\frac{7}{2}, -\frac{89}{4})$
6. $f(x) = -1(x-3)^2 - 1$; $(3, -1)$
7. $f(x) = -4(x - \frac{7}{2})^2 + \frac{147}{2}$; $(\frac{7}{2}, \frac{147}{2})$
8. $f(x) = \frac{1}{2}(x-4)^2 - 1$; $(4, -1)$

#9-12: check graphs in class

9. $f(x) = (x+5)^2 - 7$; $(-5, -7)$; $x = -5$
10. $f(x) = -1(x-2)^2 - 2$; $(2, -2)$; $x = 2$
11. $f(x) = -2(x-2)^2 + 7$; $(2, 7)$; $x = 2$
12. $f(x) = 3(x+1)^2 - 3$; $(-1, -3)$; $x = -1$