Chapter 2 Review Problems

Sketch. Are the inverses functions?

1. $f\left(x\right)=4\left|2x-1\right|+3$ 4a. $f\left(x\right)=\left\{\begin{array}{c}2x+3 x\geq 0\\-x^{2}+1 -1<x<0\\2\left|x\right|+1 x\leq -1\end{array}\right.$
2. $f\left(x\right)=-3(x-7)^{3}-4$
3. $f\left(x\right)=5(\frac{1}{3}x-1)^{2}+2$
4. $f\left(x\right)=\sqrt{7x-14}$

If (-3, 2) is a point on f(x), find the translated point for the following

1. $ 2f\left(-3x+\frac{1}{2}\right)+1$
2. $–f\left(4+x\right)-7$
3. $5f\left(4x\right)+2$
4. $7f\left(6-\frac{1}{2}x\right)-6$

Find an equation for the following graphs.

1. **(-2, 4)** 11. (-4, 4)

 (0, -1) (2, -1)

1. 12.

 (3, 4)

 (5, 2) (-1, 1)

 (1, -3)