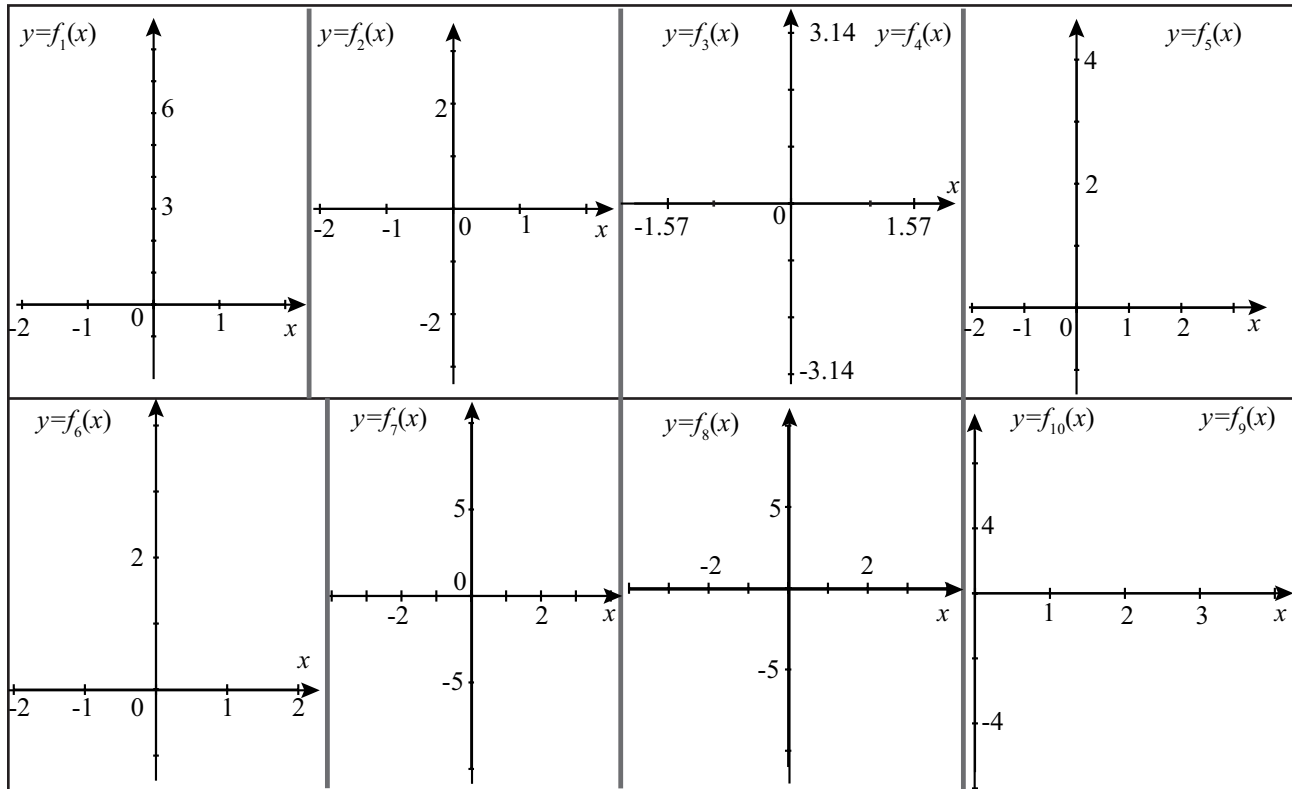


Functions Worksheet 4



1. Sketch $f_1(x) = 5x + 7$.
2. Sketch $f_2(x) = x^2 - 2$.
3. Sketch $f_3(x) = \sin(x + 1.57)$
4. Add the sketch of the inverse $f_4(x)$ of $f_3(x) = \sin(x + 1.57)$ to the above graph.
5. Sketch $f_5(x) = |2x - 1|$
6. Sketch $f_6(x) = |x^2 - 2|$ for $|x| \leq 2$.
7. Sketch $f_7(x) = \frac{x+3}{4x-2}$ for $|x| \leq 4$.
8. Sketch $f_8(x) = \frac{1}{3}x^4 - \frac{1}{3}x^3 - 3x^2 + 3x$.
9. Sketch $f_9(x) = 10^{\frac{x}{3}} + 1$ for $x \geq 0$.
10. Add the sketch of the inverse $f_{10}(x)$ of $f_9(x) = 10^{\frac{x}{3}} + 1$ to the above graph.