

Describe each of the transformations after identifying the parent function
Use proper vocabulary:

vertical, horizontal, reflection,
stretch, shrink, translation,
up, down, left, right

1. $y = 3x - 2$

2. $y = -\frac{1}{2}|x + 7| - 4$

3. $y = 2(x - 3)^2 + 1$

4. $y = 2\left(\frac{1}{2}\right)^{-(x-1)} + 4$

5. $y = \sqrt{-5x} + 3$

6. $y = \frac{1}{3}\sqrt[3]{2(x-1)} - 8$

7. $y = -3\log(x+6) - 5$

8. $y = -x^3 + 1$

9. $y = -2(3)^{x+5} - 9$

10. $y = 7\sqrt[3]{-x} - 3$