

3-4 Transformations

Name _____ Per. ____

1. Make $f(x) = -6x - 9$ one-third as steep and shift it up 6 units. What is the new equation?
2. Reflect $f(x) = \frac{1}{3}x + 4$ and make it four times as steep and shift it down 3 units. What is the new equation?
3. Compare the following functions and describe the transformations from Function A to Function B.

Function A: $y = \frac{3}{4}x - 1$

Function B: $y = -\frac{8}{3}x - 5$

4. Choose ALL statements that are correct.

Function A: $y = x$

Function B: $f(x) = -\frac{1}{2}x - 2$

- A. B is shifted up 2 from the parent function
- B. B is shifted down 2 from the parent function.
- C. B is shifted left 2 from the parent function.
- D. B is shifted right 2 from the parent function.
- E. B is steeper.
- F. B is less steep.
- G. B is reflected.

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