

Math 3 Advanced

KEY

Determine the graphical transformations for an exponential function from its mother function.

1. vertical reflection
vertical stretch of 2
horizontal shift right 2
vertical shift down 1
2. vertical stretch of 5
horizontal shift left 2
vertical shift up 2
3. vertical stretch of 3
horizontal shift right 2
vertical shift up 1
4. vertical reflection
vertical stretch of 3
horizontal shift right 1
vertical shift up 2
5. vertical reflection
vertical stretch of 2
horizontal shift right 2
vertical shift up 2
6. vertical reflection
vertical stretch of 4
horizontal shift left 1
vertical shift up 1
7. vertical stretch of $\frac{1}{2}$
horizontal shift right 2
vertical shift down 2
8. vertical stretch of 2
horizontal shift right 1
vertical shift down 1
9. vertical stretch of 4
horizontal shift right 2
vertical shift down 1
10. vertical reflection
vertical stretch of $\frac{1}{3}$
horizontal shift right 1
vertical shift up 2
11. vertical stretch of $\frac{1}{2}$
horizontal shift right 2
vertical shift up 1
12. vertical stretch of $\frac{1}{3}$
horizontal shift right 1
vertical shift up 1
13. vertical reflection
vertical stretch of 2
horizontal shift left 1
vertical shift down 1
14. vertical reflection
vertical stretch of $\frac{1}{3}$
horizontal shift left 2
vertical shift up 2
15. vertical stretch of 4
horizontal shift right 2
vertical shift up 2
16. vertical reflection
vertical stretch of $\frac{1}{2}$
horizontal shift left 2
vertical shift up 2