Ch. 6 Test Review Part 1 Non-Calculator
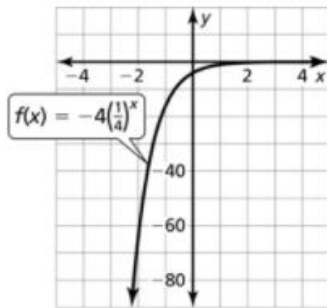
Pg. 348: 1 – 12

1. $\dfrac{1}{y^2}$

8. not a real number

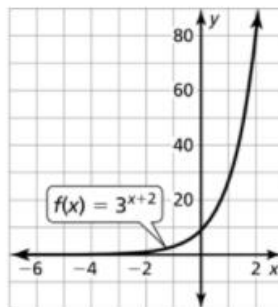**2.** $\dfrac{1}{x^3}$

9.

$f(x) = -4\left(\tfrac{1}{4}\right)^x$

3. y^6

domain: all real numbers, range: $y < 0$

4. $\dfrac{25y^8}{4x^4}$

10.

5. 2

$f(x) = 3^{x+2}$

6. -3

7. 125

domain: all real numbers, range: $y > 0$

11.

$f(x) = 2^{x-4} - 3$
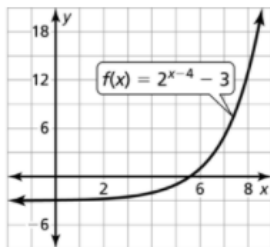
domain: all real numbers, range: $y > -3$

12. $f(x) = 2\left(\frac{1}{2}\right)^x$

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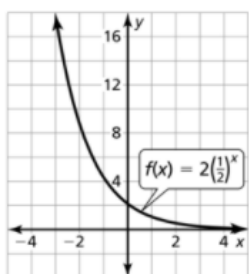
The graph of f is a vertical stretch by a factor of 2 of the graph of g.

Pg. 351: $1 - 6$

1. -2

2. 3

3. -128

4. z^2

5. b^3

6. $\dfrac{125}{8c^{12}}$