

# Algebra 2 Final Exam Review Answers

1. Evaluate:  $125^{2/3} = (\sqrt[3]{125})^2 = 5^2 = 25$ .

2. Evaluate:  $16^{5/4} = (\sqrt[4]{16})^5 = 2^5 = 32$ .

3. Rewrite  $y^{5/3}$  using radical notation:  $(\sqrt[3]{y})^5$ .

Simplify:

4.  $x^{1/3} \cdot x^{1/3} = x^{\frac{1}{3} + \frac{1}{3}} = x^{\frac{2}{3} + \frac{2}{3}} = x^{\frac{4}{3}}$

5.  $(a^5 b^6 c^{10})^4 = a^{5 \cdot 4} b^{6 \cdot 4} c^{10 \cdot 4} = a^{20} b^{24} c^{40}$

6.  $\frac{15x^{-4}y^7}{5x^3y^{-8}z^{-2}} = \frac{15}{5} x^{-4-3} y^{7-(-8)} z^{0-(-2)} = 3x^{-7} y^{15} z^2 = \frac{3y^{15}z^2}{x^7}$

7. Find an equation for the inverse of the relation  $y = 5x + 3$ .

$$x = 5y + 3$$

$$x - 3 = 5y$$

$$\frac{x-3}{5} = y$$

8. Let  $f(x) = -4x$ . Find  $f^{-1}$ .

$$x = -4y$$

$$\frac{x}{-4} = y = f^{-1}$$

9. If  $f(x) = 4x^2 + 7$  and  $g(x) = 5x + 2$ . Find  $g(f(x))$ .

$$g(4x^2 + 7) = 5(4x^2 + 7) + 2$$

$$= 20x^2 + 35 + 2$$

$$= 20x^2 + 37$$

10. Find  $f(g(x))$ ? What does your answer mean?

$$g(x) = \frac{1}{2}x - \frac{1}{3}, \quad f(x) = \frac{6x+2}{3}$$

$$f\left(\frac{1}{2}x - \frac{1}{3}\right) = \frac{6\left(\frac{1}{2}x - \frac{1}{3}\right) + 2}{3}$$

$$= \frac{3x - 2 + 2}{3}$$

$$= \frac{3x}{3}$$

$$= x$$

Since  $f(g(x)) = x$ , this means  $f(x)$  and  $g(x)$  are inverses of each other.

# Algebra 2 Semester Exam Review Answers

**Y Pai**



## Algebra 2 Semester Exam Review Answers:

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