

Algebra II Semester 2 Practice Final Exam (Chapters 6-10)

1. Add or subtract. Simplify if possible.

$$\frac{q^2 - 2q - 15}{q^2 + 2q - 15} - \frac{1}{q - 3}$$

a. $\frac{q - 8}{q - 3}$

b. $\frac{q - 7}{q - 3}$

c. $q - 8$

d. $\frac{q^2 - 2q - 16}{q^2 + 2q - 15}$

2. Write a polynomial function in standard form with zeros at -4, 2, and -5.

a. $f(x) = x^3 + 7x^2 + 2x - 40$

b. $f(x) = x^3 + 7x^2 + 2x - 6$

c. $f(x) = x^3 - 3x^2 - 120x - 6$

d. $f(x) = x^3 - 40x^2 + 7x + 2$

3. Simplify.

$$-\sqrt{10} + 2\sqrt{4} - 3\sqrt{10}$$

a. $4\sqrt{10} + 4$

b. $-4\sqrt{10} + 2\sqrt{4}$

c. $-4\sqrt{10} + 4$

d. none of these

4. Multiply.

$$(-2 - \sqrt{10})(-3 + \sqrt{10})$$

a. $16 + 6\sqrt{10}$

b. $-4 + 6\sqrt{10}$

c. $-4 + \sqrt{10}$

d. $-15 - 5\sqrt{10}$

5. Rationalize the denominator of the expression.

$$\frac{\sqrt{7} - \sqrt{3}}{\sqrt{7} + \sqrt{3}}$$

a. $\frac{4 - 2\sqrt{21}}{4}$

b. $\frac{10 - 2\sqrt{21}}{4}$

c. $\frac{-4 - \sqrt{21}}{4}$

d. -1

6. Write an exponential function
- $y = ab^{x-h}$
- for a graph that includes (1, 17.5) and (-1, 2.8).

a. $y = 2.5(7)^x$

b. $y = 5(3.5)^x$

c. $y = 7(2.5)^x$

d. $y = 3.5(5)^x$

7. Write
- $2x^3 + 2x^2 - 40x$
- in factored form.

a. $2x(x + 5)(x - 4)$

b. $5x(x - 4)(x + 2)$

c. $-4x(x + 2)(x + 5)$

d. $2x(x - 4)(x - 5)$

8. For the function
- $f(x) = (5 - 6x)^2$
- , find
- f^{-1}
- .

a. $f^{-1}(x) = \pm \sqrt{\frac{5+x}{6}}$

b. $f^{-1}(x) = \pm \sqrt{\frac{5-x}{6}}$

c. $f^{-1}(x) = \frac{5 \pm \sqrt{x}}{6}$

d. $f^{-1}(x) = \frac{5 \pm \sqrt{x}}{6}$

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Y Pai



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