

CV | Algebra II

Chapter 1 REVIEW

NAME Key

1. Select the algebraic expression that represents the verbal expression.

Twice the sum of a number and 8.

$$2(n+8)$$

2. Evaluate $2b(4a - c^2)$ if $a = 5$, $b = 3/2$, and $c = 11$.

$$-303$$

3. Evaluate $-|3c - d|$ if $c = -1$ and $d = 5$.

$$-8$$

4. The formula for the surface area of a sphere is $A = 4\pi r^2$, where r is the length of the radius.

Find the surface area of a sphere with a radius of 14 feet. Use $\frac{22}{7}$ for π .

$$2,464 \text{ ft}^2$$

11. $|x-3|+10=2$

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12. Jamie is 4 years younger than her brother. Five years from now, the sum of their ages will be 32. Find Jamie's present age.

9

13. One side of a triangle is four centimeters longer than the shortest side. The third side of the triangle is twice as long as the shortest side. Find the length of the longest side of the triangle if its perimeter is 40 centimeters.

18cm

For Questions 14 – 18, solve each inequality.

14. $0.38 > \frac{2x-7}{5}$

$x < 4.45$

15. $9 \leq 7-x \leq -1$

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