

Algebra

Topic: Word Problems

Name: Date: If $p = -2$, $q = -1$ and $r = 3$, find the value of:

1. $p^2 + q^2 - r^2 =$

2. $2p^2 - q^2 + 3r^2 =$

3. $p - q - r =$

4. $p^4 + q^4 - r^4 =$

5. $p^3 + q^3 + r^3 + 3pqr =$

6. The side of an equilateral triangle is shown by l . Express the perimeter of the equilateral triangle using l .

7. The side of the regular hexagon is denoted by l . Express the perimeter of the hexagon using l .

8. A cube is three dimensional figure. It has six faces and all of them are identical squares. The length of an edge of the cube is given by l . Find the formula for the total length of the edges of a cube.

9. Write the constant term of $3x^2 + 5x + 8$.

10. Write the constant term of $2x^2 - 9$.

