

# Grade 12 Investigation

## INVESTIGATION GR. 12 (Sum & Product of roots).

To investigate the relationship between the roots of a quadratic equation and the equation

1. Relationship between  $a$  and the roots,  $y$ -intercept and gradient of the equation  $y = ax^2 + bx + c$

1.1 Draw the following quadratic equations on the same system of axes.

1.1.1  $y = x^2 - 1$

1.1.2  $y = 2(x^2 - 1) = 2x^2 - 2$

1.1.3  $y = 3(x^2 - 1)$

1.1.4  $y = 0,5(x^2 - 1)$

1.2 Draw and solve the following quadratic equations on the same system of axes.

1.2.1  $y = x^2 + x - 6$

1.2.2  $y = 2(x^2 + x - 6) = 2x^2 + 2x - 12$

1.2.3  $y = 3(x^2 + x - 6)$

1.2.4  $y = 0,5(x^2 + x - 6)$

CONCLUSION (in your own words)

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2. Relationship between sum of roots, product of roots and coefficients of the quadratic equation.

2.1 Solve the equations below and complete the following table:

	Equation	Roots	Sum of roots	Product of roots
2.1.1	$x^2 + 7x + 12 = 0$			
2.1.2	$x^2 + 5x + 6 = 0$			
2.1.3	$x^2 + x - 20 = 0$			

# Grade 12 Exemplor 2014

**Hongru Du**



**Grade 12 Exemplor 2014:**

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