

Final Exam: Algebra and Trigonometry Solutions

Question 1:

Given the points $(-1, 6)$ and $(4, -5)$, find the following:

a) The Gradient (m)

The gradient (slope) of a line through the points (x_1, y_1) and (x_2, y_2) is calculated by:

$$m = (y_2 - y_1) / (x_2 - x_1)$$

Substitute $(x_1, y_1) = (-1, 6)$ and $(x_2, y_2) = (4, -5)$:

$$m = (-5 - 6) / (4 - (-1)) = -11 / 5$$

Answer: $m = -11/5$

b) The Equation of the Line Passing Through the Given Points

Using the point-slope form of the equation of a line:

$$y - y_1 = m(x - x_1)$$

Substitute $m = -11/5$ and $(x_1, y_1) = (-1, 6)$:

$$y - 6 = (-11/5)(x + 1)$$

Simplifying gives:

$$y = (-11/5)x + 19/5$$

c) The Length of the Line Segment with the Given Points

Using the distance formula:

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Substitute $(x_1, y_1) = (-1, 6)$ and $(x_2, y_2) = (4, -5)$:

$$d = \sqrt{(5)^2 + (-11)^2} = \sqrt{25 + 121} = \sqrt{146}$$

Answer: Length of the line segment = $\sqrt{146}$ (approximately 12.08 units)

d) The Midpoint of the Line Segment

Using the midpoint formula:

$$x_m = (x_1 + x_2)/2, y_m = (y_1 + y_2)/2$$

Substitute $(x_1, y_1) = (-1, 6)$ and $(x_2, y_2) = (4, -5)$:

$$x_m = (3)/2 = 3/2, y_m = (1)/2 = 1/2$$

Answer: Midpoint = $(3/2, 1/2)$

Question 2:

Using ONLY Completing the Square, solve the quadratic equation:

$$10x^2 + 6x + 1 = 0$$

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