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 (x1, y1) and (x2, y2) is calculated by:
m = (y2 - y1) / (x2 - x1)
Substitute (x1, y1) = (-1, 6) and (x2, y2) = (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 - y1 = m(x - x1)
Substitute m = -11/5 and (x1, y1) = (-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((x2 - x1)^2 + (y2 - y1)^2)
Substitute (x1, y1) = (-1, 6) and (x2, y2) = (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 = (x1 + x2)/2, y_m = (y1 + y2)/2
Substitute (x1, y1) = (-1, 6) and (x2, y2) = (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:

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

Mymathlab Trigonometry Comon Final

Annelies Wilder-Smith

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