<table>
<thead>
<tr>
<th>Non-Calculator Question</th>
<th>Answer</th>
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<tbody>
<tr>
<td>1) State the equation used to find the midpoint between 2 points.</td>
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<td>2) How do you prove lines are parallel?</td>
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<td>3) What is the formula used to calculate the limit of a recurrence relation?</td>
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| 4) If \( f(x) = x + 5 \) and \( g(x) = x^2 \)
  Find \( g(f(x)) \). | |
| 5) \( u_{n+1} = 0.5u_n - 3 \quad u_0 = 4 \)
  Find \( u_2 \). | |
| 6) Find \( \int \frac{x^2+5x}{x} \, dx \). | |
| 7) If \( \tan x = \frac{5}{7} \), find \( \sin2x \). | |
| 8) State the centre and the radius of the following circle:
  \( (x - 3)^2 + (y + 2)^2 = 36 \) | |
| 9) Express \( 2x^2 + 16x + 5 \) in the form \( a(x + p)^2 + q \). | |
| 10) If \( y = 3x^3 - 5x^2 + 4x \), find \( \frac{dy}{dx} \). | |