19th November

Factorise fully

\[(x + 2)^4 - (x - 3)(x + 2)^2\]

<table>
<thead>
<tr>
<th><strong>Area = 1m²</strong></th>
<th>Shown is a regular hexagon. Find (x)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Hexagon" /></td>
<td></td>
</tr>
</tbody>
</table>

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<tr>
<th><strong>Calculate an estimate for the acceleration after 40 seconds</strong></th>
<th><strong>Calculate an estimate for the total distance travelled in the 60 seconds.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Velocity Time Graph" /></td>
<td>Here is a velocity time graph for the first 60 seconds of a journey.</td>
</tr>
</tbody>
</table>

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<tr>
<th><img src="image" alt="Both Shapes" /></th>
<th>Both shapes have the same volume. Express (r) in terms of (x).</th>
</tr>
</thead>
</table>