Quartics:

Examples:

1. Sketch the curve with equation

2. Sketch the curve with equation

3. Sketch the curve with equation

4. Sketch the curve with equation

Test Your Understanding

1. Sketch the curve with equation

2. Sketch the curve with equation

Extension:

*[STEP I 2012 Q2a]*

1. Sketch
2. For what values of does the equation have the following number of distinct roots (i) 0, (ii) 1, (iii) 2, (iv) 3, (v) 4.

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