**Coordinate Geometry Questions**

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| $$y=x^{2}$$DBCAFEO | 1. Find the equation of the tangent to the curve at C |
| 2. Find the length of the line segment BC, giving your answer in exact form |
| 3 .Verify if the point E is the midpoint of AF |
| 4. Verify if the triangle BAF is similar to ABD |
| 5. Verify if the triangle ADE is similar to OBD |
| 6. Verify if the triangle ADE is similar to OEF |