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| **GeometricObject** |
| - color: String  - filled: boolean  - dateCreated: Date |
| + GeometricObject ()  + GeometricObject (color: String, filled: boolean)  + getColor (): String  + setColor (color: String): void  + isFilled (): boolean  + setFilled (filled: boolean): void  + getDateCreated (): Date  + toString (): String |

1. UML Diagram for the Triangle class

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| **Triangle** |
| - side1: double  - side2: double  - side3: double |
| + Triangle ()  + Triangle (double, double, double)  + getSide1(): double  + getSide2(): double  + getSide3(): double  + getArea (): double  + getPerimeter (): double  + toString (): String |