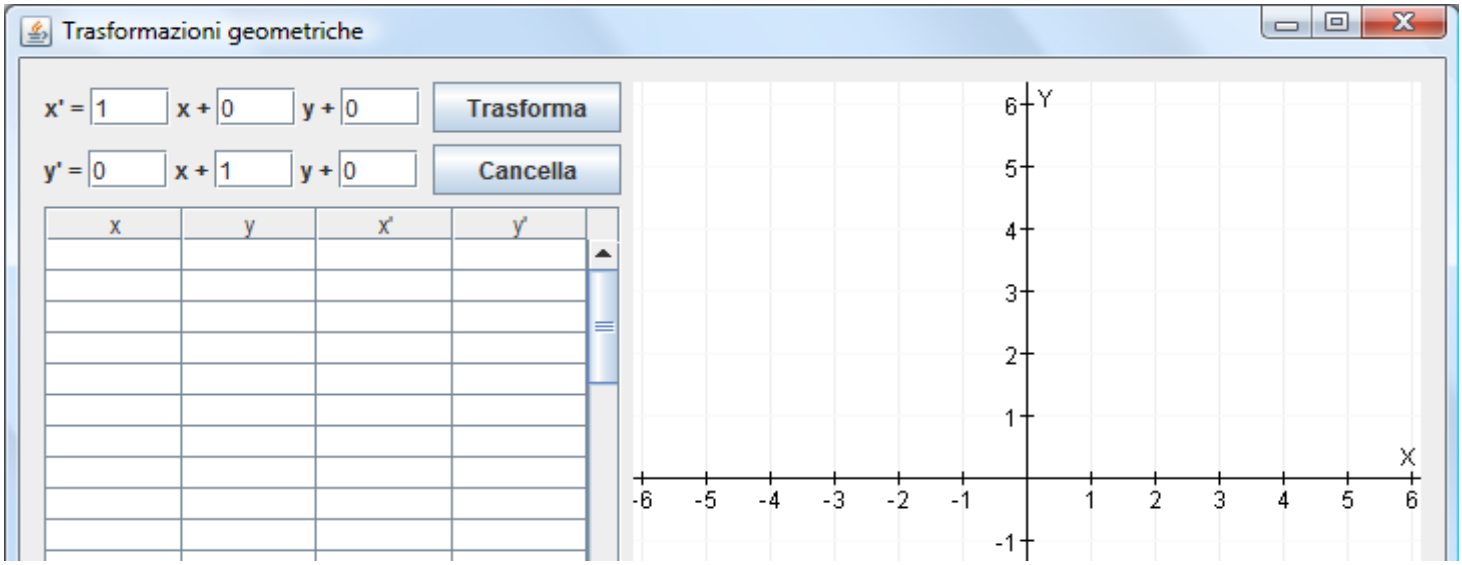
Trasformazioni geometriche




```
private void jButtonCancellaActionPerformed(java.awt.event.ActionEvent evt) {
    jOxy.clear();
}

private void jButtonTrasformaActionPerformed(java.awt.event.ActionEvent evt) {
    double a, b, c, d, e, f, x, y, x1, y1;
    boolean flag = false;
    a = Double.parseDouble(jTextFieldA.getText());
    b = Double.parseDouble(jTextFieldB.getText());
    c = Double.parseDouble(jTextFieldC.getText());
    d = Double.parseDouble(jTextFieldD.getText());
    e = Double.parseDouble(jTextFieldE.getText());
    f = Double.parseDouble(jTextFieldF.getText());

    jOxy.setColor(Color.blue);
    for (int i = 0; i<jTableP.getRowCount(); i++) {
        try {
            x = (Double)jTableP.getValueAt(i,0);
            y = (Double)jTableP.getValueAt(i,1);
            x1 = a*x+b*y+e;
            y1 = c*x+d*y+f;
            jTableP.setValueAt(x1,i,2);
            jTableP.setValueAt(y1,i,3);
            if (flag)
                jOxy.LineTo(x,y);
            else
                jOxy.MoveTo(x,y);
            flag = true;
        } catch (Exception ex) {
            jTableP.setValueAt(null,i,2);
            jTableP.setValueAt(null,i,3);
            flag = false;
        }
    }
    jOxy.setColor(Color.red);
    for (int i = 0; i<jTableP.getRowCount(); i++) {
        try {
            x = (Double)jTableP.getValueAt(i,2);
            y = (Double)jTableP.getValueAt(i,3);
            if (flag)
                jOxy.LineTo(x,y);
            else
                jOxy.MoveTo(x,y);
            flag = true;
        } catch (Exception ex) {
            flag = false;
        }
}
```