

Determining A Circle From Three Given Points (HP 48/50)

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```
<< -> X1 Y1 X2 Y2 X3 Y3
<< X1 X2 - Y2 Y1 - / 'M1' STO
    X2 X3 - Y3 Y2 - / 'M2' STO
    X1 X2 + 2 / 'XM1' STO
    Y1 Y2 + 2 / 'YM1' STO
    X2 X3 + 2 / 'XM2' STO
    Y2 Y3 + 2 / 'YM2' STO
    YM1 M1 XM1 * - 'B1' STO
    YM2 M2 XM2 * - 'B2' STO
    B2 B1 - M1 M2 - / 'XC' STO
    XC M1 * B1 + 'YC' STO
    X1 XC - SQ Y1 YC - SQ + √ 'R' STO
    XC YC R->C "(XC,YC)" ->TAG
    R "RADIUS" ->TAG >> >>
```