

例 75 将下列直角坐标系下的方程化为极坐标系下的方程.

1. $x^2 + xy + y^2 = 1$;

2. $xy = 2$;

3. $x^2 + (y - 2)^2 = 4$;

4. $x + \sqrt{3}y = 4$;

5. $y = e^x$.

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