Let $F(x, y) = \langle y - 3, x + 2y \rangle$. For each path C, first determine if $\int_{C} F(x, y) \cdot dr$ is positive or negative and then calculate $\int_{C} F(x, y) \cdot dr$ 1. C is the portion of the polar rose $r = 2\cos(2\theta)$ with $0 \le \theta \le \frac{\pi}{2}$

2. C is the portion of the polar rose $r = 2\cos(2\theta)$ with $0 \le \theta \le 2\pi$





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Math 236 Multivariable Calculus