17-18 Encontre uma equação polar para a curva representada pela equação cartesiana dada.

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$$x + y = 2$$

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11. x

está no setor especificado.

1.
$$r = \theta^2$$
, $0 \le \theta \le \pi/4$

$$A = \int_{0}^{\pi/4} \frac{1}{2} \pi^2 d\theta = \int_{0}^{\pi/4} \frac{1}{2} \theta^4 d\theta = \int_{0}^{\pi/4} \frac{1}{2} \frac{1}{2} \theta^4 d\theta = \int_{0}^{\pi/4} \frac{1}{2} \frac{1$$

$$A = \int_{0}^{\pi} \frac{1}{2} \cdot \int_{0}^{\pi} \frac{1}{2} \cdot$$

$$=\frac{1}{2}\int_{0}^{\frac{\pi}{4}}\theta^{4}d\theta = \frac{1}{2}\frac{\theta^{5}}{5}\Big|_{0}^{\frac{\pi}{4}}$$

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$$=\frac{1}{10}\cdot\left[\left(\frac{\pi}{2}\right)^{5}-0^{5}\right]$$

$$= \frac{1}{2} \int_{0}^{\frac{\pi}{4}} \theta^{4} d\theta = \frac{1}{2} \frac{\theta^{5}}{5} \Big|_{0}^{\frac{\pi}{4}}$$

$$= \frac{1}{10} \cdot \left[\frac{\pi}{4} \right]_{0}^{\frac{\pi}{4}}$$

45.
$$r = 2\cos\theta$$
, $0 \le \theta \le \pi$ 46. $r = 5^{\theta}$, $0 \le \theta \le 2\pi$

45–48 Calcule o comprimento exato da curva polar.

$$L = \int_{0}^{\pi} 4\cos^{2}\theta + 4\sin^{2}\theta d\theta$$

Uma propriedade da Integral Definida
$$L = 2 (\pi - 0)$$

$$L = 2\pi \text{ A.e.}$$

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$$\Pi = 5^{2} \quad 0 \le 0 \le 2 \Pi$$

$$L = \int_{0}^{2\pi} \sqrt{m^{2} + m^{2}} d\theta$$

$$\Pi = 5^{0} \quad M' = 5^{0}, M5$$

$$M^{2} = 5^{20} \quad M'' = 5^{20} (MS)^{2}$$

$$L = \int_{0}^{2\pi} 5^{2\theta} + 5^{2\theta} (\ln 5)^{2\theta} d\theta$$

$$L = \int_{0}^{2\pi} 5^{2\theta} (1 + (\ln 5)^{2\theta}) d\theta$$

$$L = \int_{0}^{2\pi} 5^{\theta} \int_{0}^{2\pi} 1 + (\ln 5)^{2} d\theta$$

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$$L = \sqrt{1 + (0n5)^2} \left[\frac{5^{2\pi}}{0n5} - \frac{5^0}{0n5} \right]$$

$$L = \sqrt{1 + (0n5)^2} \left[\frac{5^{2\pi}}{5^{2\pi}} - 1 \right] \text{ m.c.}$$

$$0n5$$



