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

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1-4 Encontre a área da região que é delimitada pelas curvas dadas e está no setor especificado. $r = \theta^2$, $0 \le \theta \le \pi/4$ $U = \theta_5$ ०८ ६ ८।या Dialco 0,20,40,60,80, T(0)=0 12 F 17 (211)= 4112 714 11 = 1671L 7(6H|=3 6 H2 のぐゅへけ ANC SOS OCINEL 0.2 0.4 -0.2 0.2 A = \(\frac{1}{27} \frac{1}{29} \text{0} \do \text{0} = \frac{1}{2} \left(\frac{1}{27} \text{0} \do \text{0} \do \text{0} \) $A = \frac{1}{2} \theta^{\frac{1}{4}} = \frac{1}{2} \cdot \frac{\pi^{\frac{1}{4}}}{7^{\frac{1}{4}}}$ $=\frac{\Pi^{2}}{(2^{2})^{T}}=\frac{\Pi^{5}}{2^{11}}$ 45–48 Calcule o comprimento exato da curva polar. **45.** $r=2\cos\theta, \quad 0 \le \theta \le \pi$ **46.** $r=5^{\theta}, \quad 0 \le \theta \le 2\pi$ a) L= ST M2+12 00 M = 20050 : 12=400500 1- (17 4 co>20 + 4 sen20 do L- [74 do = 2] do

$$L = \int_{0}^{\pi} \int 4 \, d\theta = 2 \int_{0}^{\pi} d\theta$$

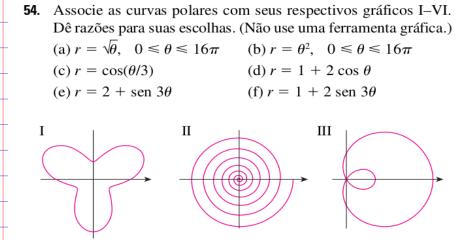
$$L = 2\pi$$

$$L = 2\pi$$

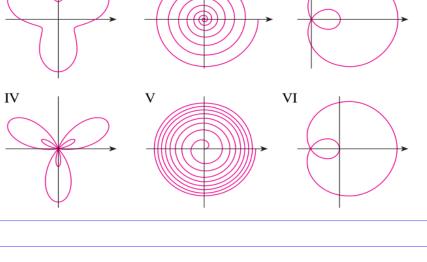
$$\Delta = 2\pi$$

$$\Delta = 2\pi$$

 $\Pi = S^{0}$ $\Pi^{2} = S^{20} \quad \Pi = S^{0}, \text{ In } 5$ $(\Pi)^{2} = S^{20}(\ln t)^{2}$ $L = \int_{0}^{2\pi} |\Pi^{2} + |\Pi|^{2} ds$ L= 520 (1+lens)2) do $L = \sqrt{1 + (n_s)^2} \int_{-\infty}^{2\pi} ds$ $L = \sqrt{1 + (n_s)^2} \int_{-\infty}^{2\pi} ds$



L



21. 26 Encontre uma equação polar para a curva representada pela equação cartesiana dada.

21.
$$y = 2$$

22. $y = x$

23. $y = 1 + 3x$

24. $4y^2 = x$

25. $x^2 + y^2 = 2cx$

26. $xy = 4$

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