

1. Solve

$$\begin{aligned}-9x - 9 \tan y &= -81 \\ 4x - 2 \tan y &= 36\end{aligned}$$

$$\text{given } 0 \leq y < 2\pi$$

2. Solve

$$\begin{aligned}13 \ln x + 4y &= 0 \\ -5 \ln x + 7y &= 0\end{aligned}$$

3. Solve

$$\begin{aligned}13 \sin x + 6y &= -18 \\ -3 \sin x - 9y &= 27\end{aligned}$$

$$\text{given } 0 \leq x < 2\pi$$

4. Solve

$$\begin{aligned}5\sqrt{x} - 9y &= 32 \\ 5\sqrt{x} + 2y &= -1\end{aligned}$$

5. Solve

$$\begin{aligned}-12 \tan x + 3y &= 18 \\ -4 \tan x + 3y &= 26\end{aligned}$$

$$\text{given } 0 \leq x < 2\pi$$