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Find a **simplified** rectangular equation for the curve defined by the parametric equations

$$x = h + a\cot t$$
$$y = k + b\csc t$$

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Find a **simplified** rectangular equation for the curve defined by the parametric equations

$$x = 2\cos t$$
$$y = \cos 2t$$

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Sketch the curve represented by the parametric equations $x = \dfrac{4t}{1+t^2}$, $y = t - 2$ for $-2 \le t \le 2$

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Sketch the curve represented by the parametric equations $x = t + 2$, $y = \dfrac{-5t}{1+t^2}$ for $-2 \le t \le 2$

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Use **Gauss-Jordan elimination** to solve the the system

$$\begin{aligned} 2x + 2y - z &= 0 \\ x - 3y + z &= -15. \\ -x + y &= 7 \end{aligned}$$

Show and label all row operations performed as shown in class.

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Use **Gauss-Jordan elimination** to solve the the system

$$\begin{aligned} 2x + 2y - z &= 16 \\ x - 3y + z &= -7. \\ -x + y &= -1 \end{aligned}$$

Show and label all row operations performed as shown in class.

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