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Determinants – Cramer's Rule

DS2

Solve the following system of equation using Cramer's rule:

$$\frac{x}{6} - \frac{y}{22} = 1$$

$$\frac{-x}{3} + \frac{y}{33} = \frac{-4}{3}$$

$$\Delta = \boxed{}$$

$$\Delta x = \boxed{} \quad \Delta y = \boxed{}$$

$$x = \boxed{}$$

$$\frac{2x}{3} + \frac{3y}{7} = 2$$

$$\frac{x}{4} - \frac{y}{2} = 10$$

$$\Delta = \boxed{}$$

$$\Delta x = \boxed{} \quad \Delta y = \boxed{}$$

$$y = \boxed{}$$

$$\frac{x}{6} - \frac{y}{5} = \frac{-17}{30}$$

$$\frac{-x}{4} + \frac{y}{3} = \frac{13}{12}$$

$$\Delta = \boxed{}$$

$$\Delta x = \boxed{}$$

$$x = \boxed{}$$

$$\frac{x}{2} + \frac{y}{3} = -2$$

$$\frac{x}{3} + \frac{y}{3} = -3$$

$$\Delta = \boxed{}$$

$$\Delta x = \boxed{}$$

$$x = \boxed{}$$

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$$y = \boxed{}$$

$$y = \boxed{}$$

$$y = \boxed{}$$

$$x = \boxed{}$$

$$y = \boxed{}$$

Determinants – Cramer's Rule

DS2

$$\frac{x}{6} - \frac{y}{22} = 1$$

$$\frac{-x}{3} + \frac{y}{33} = \frac{-4}{3}$$

$$\Delta = \frac{-1}{99}$$

$$\Delta x = \frac{-1}{33}; \Delta y = \frac{1}{9}$$

$$x = \frac{\Delta x}{\Delta} = 3; y = \frac{\Delta y}{\Delta} = -11$$

$$\frac{2x}{3} + \frac{3y}{7} = 2$$

$$\frac{x}{4} - \frac{y}{2} = 10$$

$$\Delta = \frac{-37}{84}$$

$$\Delta x = \frac{-37}{7}; \Delta y = \frac{37}{6}$$

$$x = \frac{\Delta x}{\Delta} = 12; y = \frac{\Delta y}{\Delta} = -14$$

$$\frac{x}{6} - \frac{y}{5} = \frac{-17}{30}$$

$$\frac{-x}{4} + \frac{y}{3} = \frac{13}{12}$$

$$\Delta = \frac{1}{180}$$

$$\Delta x = \frac{1}{36}; \Delta y = \frac{7}{18}$$

$$x = \frac{\Delta x}{\Delta} = 5; y = \frac{\Delta y}{\Delta} = -8$$

$$\frac{x}{2} + \frac{y}{3} = -2$$

$$\frac{x}{3} + \frac{y}{3} = -3$$

$$\Delta = \frac{1}{18}$$

$$\Delta x = \frac{1}{3}; \Delta y = \frac{-5}{6}$$

$$x = \frac{\Delta x}{\Delta} = 6; y = \frac{\Delta y}{\Delta} = -15$$

$$x = \frac{\Delta x}{\Delta} = 10; y = \frac{\Delta y}{\Delta} = 6$$

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