$12x = 18$

$x = \frac{18}{12} = \frac{3}{2}$

$2 \cdot \frac{3}{2} - 4y + 2 = 0$

$3 - 4y + 2 = 0$

$5 - 4y = 0$

$4y = 5$

$x = \frac{5}{4}$

$\underline{S\left(\frac{3}{2}, \frac{5}{4}\right)}$

c) $2x + 4y - 5 = 0$

$x - 2y + 5 = 0 \quad /\cdot 2$

$2x + 4y - 5 = 0$

$2x - 4y + 10 = 0$

$4x + 5 = 0$

$4x = -5$

$x = -\frac{5}{4}$

$2 \cdot \left(-\frac{5}{4}\right) + 4y - 5 = 0$

$-\frac{5}{2} + 4y - 5 = 0$

$4y = \frac{5}{2} + \frac{10}{2}$

$4y = \frac{15}{2}$

$y = \frac{15}{2} \cdot \frac{1}{4} = \frac{15}{8}$

$\underline{S\left(-\frac{5}{4}, \frac{15}{8}\right)}$

d) $\cos \sphericalangle BAC = \frac{x_{\overrightarrow{AB}} \cdot x_{\overrightarrow{AC}} + y_{\overrightarrow{AB}} \cdot y_{\overrightarrow{AC}}}{AB \cdot AC}$

$\overrightarrow{AB} = B - A = (-5, -2)$ $\quad AB = \sqrt{25+4} = \sqrt{29}$

$\overrightarrow{AC} = C - A = (-2, 4)$ $\quad AC = \sqrt{4+16} = \sqrt{20}$

$= \frac{(-5)\cdot(-2) + (-2)\cdot 4}{\sqrt{29}\cdot\sqrt{20}} = \frac{10-8}{2\sqrt{145}}$

$= \frac{2}{2\sqrt{145}} = \frac{1}{\sqrt{145}}$

$\underline{\sphericalangle BAC = 85{,}2°}$

$\cos \sphericalangle ABC = \frac{\overrightarrow{BA} \cdot \overrightarrow{BC}}{BA \cdot BC}$

$\overrightarrow{BA} = A - B = (5, 2)$ $\quad BA = \sqrt{25+4} = \sqrt{29}$

$\overrightarrow{BC} = C - B = (3, 6)$ $\quad BC = \sqrt{9+36} = \sqrt{45}$

$= \frac{5\cdot 3 + 2\cdot 6}{\sqrt{29}\cdot\sqrt{45}} = \frac{15+12}{3\sqrt{145}} = \frac{27}{3\sqrt{145}}$

$= \frac{9}{\sqrt{145}}$

$\underline{\sphericalangle ABC = 41{,}6°}$

$\cos \sphericalangle ACB = \frac{\overrightarrow{CA} \cdot \overrightarrow{CB}}{CA \cdot CB}$

$\overrightarrow{CA} = A - C = (2, -4)$ $\quad CA = \sqrt{20}$

$\overrightarrow{CB} = B - C = (-3, -6)$ $\quad CB = \sqrt{45}$

$= \frac{2\cdot(-3) + (-4)\cdot(-6)}{\sqrt{20}\cdot\sqrt{45}} = \frac{-6+24}{30} = \frac{18}{30}$

$= \frac{9}{15} = \frac{3}{5}$

$\underline{\sphericalangle ACB = 53{,}1°}$