

$$1) V_{min} = \sqrt{\frac{W}{S} \times \frac{2}{P} \times \frac{1}{C_L}}$$

$$V_{min}^2 = \frac{W}{S} \times \frac{2}{P} \times \frac{1}{C_L}$$

$$S \times V_{min}^2 = W \times \frac{2}{P} \times \frac{1}{C_L}$$

$$S = \frac{W \times \frac{2}{P} \times \frac{1}{C_L}}{V_{min}^2}$$

$$= 22998.69$$

$$S = \frac{490332 \times \frac{2}{0.41} \times \frac{1}{0.52}}{200}$$

$$b) \frac{8x-3}{5} = \frac{-5x+6}{-3}$$

$$-24x+9 = -25x+30$$

$$-30+9 = -25x+24x$$

$$-21 = -x$$

$$\frac{-21}{-1} = x$$

$$21 = x$$

$$ii) \frac{(4x-1)}{3} = \frac{(4x+3)}{2}$$

$$\frac{18x-4}{12} = \frac{24x+18}{12}$$

$$\frac{16x-4}{12} = \frac{24x+18}{12}$$

$$\frac{16x-4}{12} = \frac{24x+18}{12}$$

$$\frac{13x-4}{12} = \frac{24x+18}{12}$$

$$13x-4 = 24x+18$$

$$11x = -22$$

$$x = -2$$