

الحل :

إيجاد النقطة C

حيث $C = (x, y)$

$$x = \frac{mx_2 + nx_1}{m+n}$$

$$y = \frac{my_2 + ny_1}{m+n}$$

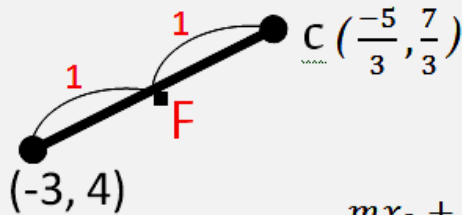
$$x = \frac{2(-3) + 1(1)}{2+1}$$

$$y = \frac{2(4) + 1(-1)}{2+1}$$

$$x = \frac{-5}{3}$$

$$y = \frac{7}{3}$$

$$\left(-\frac{5}{3}, \frac{7}{3}\right) = C \text{ إذن}$$



إيجاد النقطة F

حيث $F = (x_2, y_2)$

$$x_2 = \frac{mx_2 + nx_1}{m+n}$$

$$y_2 = \frac{my_2 + ny_1}{m+n}$$

$$x_2 = \frac{1(-3) + 1\left(-\frac{5}{3}\right)}{1+1}$$

$$y_2 = \frac{1(4) + 1\left(\frac{7}{3}\right)}{1+1}$$

$$x_2 = \frac{-7}{3}$$

$$y_2 = \frac{19}{6}$$

$$\left(-\frac{7}{3}, \frac{19}{6}\right) = F \text{ إذن}$$