$$\frac{\frac{4 \text{ k}}{k^2 - 36} + \frac{k + 3}{2 \text{ k} - 12}}{\frac{k^2 - 10 \text{ k} + 18}{k^2 - 36}}$$

أجد ناتج ما يأتي واكتبه في أبسط صورة: 1٠

$$\frac{k^2 + 8 k + 3}{k^2 - 36}$$

$$\frac{k^2 + 17 k + 18}{2 k^2 - 72}$$

$$\frac{4 k}{k^2 - 36} + \frac{k + 3}{2 k - 12} = \frac{4 k}{(k - 6) (k + 6)} + \frac{k + 3}{2 (k - 6)}$$

$$\frac{8 \text{ K}}{(\text{k-6}) (\text{k+6})} + \frac{2}{2}$$

$$\frac{2 (k-6) (k+6)}{2 (k-7) (k+6)}$$

$$\frac{k^2+17 k+18}{2 k^2-72}$$

$$+\frac{(1)^{2}}{2}$$

$$= \frac{2(4 \text{ k})}{2(k-6)(k+6)} + \frac{(k+3)(k+6)}{2(k-6)(k+6)}$$
$$= \frac{8 \text{ k}}{2(k-6)(k+6)} + \frac{k^2+9 k+18}{2(k-6)(k+6)}$$

$$= \frac{8 k}{2 (k-6) (k+6)} + \frac{k^2+9 k+18}{2 (k-6) (k+6)}$$