$$\frac{2 k}{k^2 - 9} + \frac{k + 7}{5 k - 15}$$

$$\frac{k^2 - 11 k + 21}{k^2 - 9}$$

أجد ناتج ما يأتي واكتبه في أبسط صورة: 3٠

$$\frac{k^2 + 10 k + 7}{k^2 - 9}$$

$$\frac{k^2 + 20 k + 21}{5 k^2 - 45}$$

$$\frac{k^2 + 10 k + 7}{5 k^2 - 45}$$

الحل:

$$\frac{2 k}{k^2-9} + \frac{k+7}{5 k-15} = \frac{2 k}{(k-3)(k+3)} + \frac{k+7}{5(k-3)}$$

$$\frac{1}{5}$$
 فيكون المقدار = $\frac{5(2 \text{ k})}{5(\text{k}-3)(\text{k}+3)} + \frac{(\text{k}+7)(\text{k}+3)}{5(\text{k}-3)(\text{k}+3)}$

$$= \frac{5 (k-3) (k+3)}{5 (k-3) (k+3)} + \frac{k^2+10 k+21}{5 (k-3) (k+3)}$$

$$= \frac{10 \text{ k+k}^2 + 10 \text{ k+21}}{5 (k-3) (k+3)}$$
$$= \frac{k^2 + 20 \text{ k+21}}{2}$$

5 k²-45