$$\frac{h^2 - 49}{h^2 + 25 h + 42}$$

$$\frac{h^2 + 25 h + 42}{4 h^2 - 196}$$

$$h^2 + 13 h + 6$$

4 h²-196 الحل:

 $\frac{3 h}{h^2 - 49} + \frac{h+6}{4 h-28} = \frac{3 h}{(h-7)(h+7)} + \frac{h+6}{4 (h-7)}$

$$= \frac{4 (h)}{4 (h)}$$

$$= \frac{12 \text{ n}}{4 (h-7) (h+7)} + \frac{1}{2}$$
$$= \frac{12 h+h^2+13 h+42}{4 (h-7) (h-7)}$$

$$\frac{12 \text{ h}}{\text{h}-7) (\text{h}+7)} + \frac{12 \text{ h}}{\text{h}+\text{h}^2+13 \text{ h}+42}$$

$$\frac{12 \text{ h} + \text{h}^2 + 13 \text{ h} + 42}{4 (\text{h} - 7) (\text{h} + 7)}$$

$$\frac{\text{h}^2 + 25 \text{ h} + 42}{4 \text{ h}^2 - 196}$$

$$= \frac{4(3 h)}{4(h-7)(h+7)} + \frac{(h+6)(h+7)}{4(h-7)(h+7)}$$

$$= \frac{12 h}{4(h-7)(h+7)} + \frac{h^2+13 h+42}{4(h-7)(h+7)}$$
12 h+h²+13 h+42

$$\frac{7}{7} + \frac{h^2}{4(h^2)^2}$$