$$\frac{\frac{7 \text{ c}}{\text{c}^2 - 16} + \frac{\text{c} + 5}{6 \text{ c} - 24}}{\frac{\text{c}^2 - 10 \text{ c} + 20}{\text{c}^2 - 16}}$$

أجد ناتج ما يأتي واكتبه في أبسط صورة: 4.

$$\frac{c^2 + 42 c + 5}{c^2 - 16}$$

$$\frac{c^2 + 51 c + 20}{6 c^2 - 96}$$

$c^{2}+9c+5$ $6 c^2 - 96$ الحل:

$$\frac{7 c}{c^2 - 16} + \frac{c + 5}{6 c - 24} = \frac{7 c}{(c - 4) (c + 4)} + \frac{c + 5}{6 (c - 4)}$$

$$\frac{1}{6(7 c)}$$
 = $\frac{6(7 c)}{6(c-4)(c+4)}$ + $\frac{(c+5)(c+4)}{6(c-4)(c+4)}$

$$= \frac{42 c}{6 (c-4) (c+4)} + \frac{c^2+9 c+20}{6 (c-4) (c+4)}$$
$$= \frac{42 c+c^2+9 c+20}{6 (c-4) (c+4)}$$

$$= \frac{42 + 52 + 9 + 20}{6 + 20 + 20}$$
$$= \frac{c^2 + 51 + 20}{6 + 20}$$