$$\frac{\frac{2 d}{d^2 - 36} + \frac{d + 4}{7 d - 42}}{\frac{d^2 - 11 d + 24}{d^2 - 36}}$$

أجد ناتج ما يأتي واكتبه في أبسط صورة: 1٠

$$\frac{d^2 + 14 d + 4}{d^2 - 36}$$

$$\frac{d^2 + 24 d + 24}{7 d^2 - 252}$$

 $\frac{d^2 + 10 d + 4}{2}$

$$\frac{2 d}{d^2 - 36} + \frac{d + 4}{7 d - 42} = \frac{2 d}{(d - 6) (d + 6)} + \frac{d + 4}{7 (d - 6)}$$

$$= \frac{7(2 d)}{7(d-6)(d+6)} + \frac{(d+4)(d+6)}{7(d-6)(d+6)}$$

$$\frac{14 \text{ d}}{6}$$
 + $\frac{14 \text{ d}}{6}$ + $\frac{1}{6}$

$$= \frac{14 d}{7 (d-6) (d+6)} + \frac{d^2+10 d+24}{7 (d-6) (d+6)}$$

$$= \frac{14 d+d^2+10 d+24}{7 (d-6) (d+6)}$$
$$= \frac{d^2+24 d+24}{7 d^2-252}$$

$$\frac{1}{1} + \frac{d^2 + 10 d + 24}{7 (d - 6) (d + 6)}$$

 $\frac{d + 24}{d + 24}$