2.
$$\frac{2 u}{u^2 - 16} + \frac{u + 3}{6 u - 24}$$
 $\frac{2 u}{u^2 - 16} + \frac{u + 3}{6 u - 24}$ $\frac{u^2 - 8 u + 12}{u^2 - 16}$

$$\frac{u^{2}+12 u+3}{u^{2}-16}$$

$$\frac{u^{2}+19 u+12}{6 u^{2}-96}$$

$$\frac{u^{2}+7 u+3}{u^{2}+10 u+12}$$

$$\frac{2 u}{u^2-16} + \frac{u+3}{6 u-24} = \frac{2 u}{(u-4)(u+4)} + \frac{u+3}{6(u-4)}$$
 المضاعف المشترك الأصغر (م.م.أ) للمقامين هو:

$$\frac{6(2 u)}{6(u-4)(u+4)} + \frac{(u+3)(u+4)}{6(u-4)(u+4)}$$

$$= \frac{12 u}{6 (u-4) (u+4)} + \frac{u^2+7 u+12}{6 (u-4) (u+4)}$$

$$= \frac{12 u + u^2 + 7 u + 12}{6 (u - 4) (u + 4)}$$
$$= \frac{u^2 + 19 u + 12}{2}$$

$$(u+4)$$
 $6(u-4)(u+4)$