

\* Add  $\frac{3d}{d^2-7d+10} + \frac{-2d}{d^2-8d+15}$

① find LCM of  $(d-5)(d-2)$  and  $(d-5)(d-3)$   
LCM =  $\boxed{(d-5)(d-2)(d-3)}$

②  $\frac{(d-3)3d}{(d-3)(d-5)(d-2)} + \frac{-2d(d-2)}{(d-5)(d-3)(d-2)}$

$$\frac{3d^2-9d}{(d-5)(d-2)(d-3)} + \frac{-2d^2+4d}{(d-5)(d-2)(d-3)}$$

$$\frac{3d^2-9d-2d^2+4d}{(d-5)(d-2)(d-3)}$$

$$\frac{d^2-5d}{(d-5)(d-2)(d-3)}$$

factor  
now

$$\frac{d(d-5)}{(d-5)(d-2)(d-3)}$$

$$\boxed{\frac{d}{(d-2)(d-3)}}$$