5. $\frac{n^2+3n-7}{n^2+n-6} - \frac{n+1}{n^2+n-6}$

6. $\frac{13k^2-9k}{6k^2-5k+1} + \frac{k^2+2k}{6k^2-5k+1}$

LCM

Numeric

prime factor

6: 1, 2, 3

8: 1, 2, 2, 2

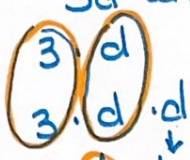
2: 2 2 3 (24)

LCM

Finding a common denominator

IF common factor(s) list once, and multiply all other factors not common

7. 3d and $3d^2$



$x-1$ and x^2-4x+3

Factors

common

$x-1$:

x^2-4x+3: $(x-1)(x-3)$

LCM $(x-1)(x-3)$

8. x^2-81 and $2x-18$

x^2-81: $(x-9)(x+9)$

$2x-18$: $2(x-9)$

LCM: $2(x-9)(x-9)$

Directions: Simplify.

Examples

With an uncommon denominator

9. $\frac{15}{2x} - \frac{16}{3x}$

10. $\frac{k^2+16}{5k-10} - \frac{4}{k-2}$