

**例1** 解方程  $\frac{1}{x-2} = \frac{3}{x}$ .

解方程  $\frac{1-x}{x-2} = \frac{1}{2-x} - 2$

**例2** 解方程： $\frac{480}{x} - \frac{600}{2x} = 45.$

1. 解方程:

$$(1) \frac{3}{x-1} = \frac{4}{x};$$

$$(2) \frac{x}{2x-3} + \frac{5}{3-2x} = 4.$$

1. 解方程:

$$(1) \frac{6}{x+1} = \frac{x+5}{x(x+1)}; \quad (2) \frac{3-x}{x-4} + \frac{1}{4-x} = 1; \quad (3) \frac{y-2}{y-3} = 2 - \frac{1}{3-y}.$$