

⑤ $\frac{7}{x^2+7x+10} + \frac{7}{x^2+3x-10} = \frac{14}{x^2-4}$

(PSD) (PSD) (DOTS)

$\frac{7}{(x+2)(x+5)} + \frac{7}{(x+5)(x-2)} = \frac{14}{(x+2)(x-2)}$

$(x+2)(x+5)(x-2) \left(\frac{7}{(x+2)(x+5)} + \frac{7}{(x+5)(x-2)} \right) = (x+2)(x+5)(x-2) \left(\frac{14}{(x+2)(x-2)} \right)$

$7(x-2) + 7(x+2) = 14(x+5)$
 $7x-14 + 7x+14 = 14x+70$
 $14x = 14x+70$

$14x-14x = 70$
 $0 = 70$
No Sol.