Section 6.6

$$\frac{1}{5x+5} = \frac{3}{x+1} - \frac{7}{5}$$

$\Rightarrow$ LCM of denominator $= x+1$

$$\Rightarrow \frac{1 \times (x+1)}{5x+5} = \frac{3(x+1)}{x+1} - \frac{7}{5}(x+1)$$

$$= \frac{1(x+1)}{5(x+1)} = 3 - \frac{7}{5}(x+1)$$

$\times 8 \quad \times 5 \quad \times 5$

$$\frac{1}{5} = 3 - \frac{7}{8}(x+1) \times 8 \times 5$$

$$1 = 15 - 7(x+1)$$

$$1 = 15 - 7x - 7$$

$$1 = 8 - 7x$$

$$7x = 8 - 1$$

$$7x = 7$$

$$x = 1$$

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