



Name: _____



Solve the following equations:

a) $x + \frac{3}{x+4} = 1$

$$x = -3.30$$

or

$$x = 0.30$$

b) $\frac{24}{x+2} + x = 8$

$$x = 2$$

or

$$x = 4$$

c) $2x + \frac{8}{x+3} = 2$

$$x = -1$$

(repeated)

d) $x - \frac{12}{x} = 4$

$$x = -2$$

or

$$x = 6$$

e) $\frac{6}{x+2} + \frac{1}{x} = 3$

$$x = 1$$

or

$$x = -2/3$$

f) $\frac{3}{x-1} - \frac{2}{x+1} = 1$

$$x = -2$$

or

$$x = 3$$

g) $\frac{5}{2x+1} + \frac{6}{x+1} = 3$

$$x = -2/3$$

or

$$x = 2$$

h) $\frac{2}{x+6} - \frac{1}{x+3} = 2$

$$x = -4$$

or

$$x = -9/2$$

h) $\frac{3}{x+1} + \frac{2}{2x-3} = 1$

$$x = 4$$

or

$$x = 1/2$$

Exam question:

Solve the equation $\frac{6}{x+1} + \frac{5}{x+3} = 3$, where x is a positive integer

$$x = 2 \quad \text{or} \quad x = -7/3$$

