10. Solve the equation for x:

$$\overset{(x-2)}{\underset{(x-2)}{}} \frac{3}{x+4} \oplus \overset{2\ (x+4)}{\underset{(x-2)(x+4)}{}} \frac{2}{x-2} = \frac{5x+2}{(x-2)(x+4)}$$

$$3x - 6 + 2x + 8 = 5x + 2$$

$$5x + 2 = 5x + 2$$

$$-5x \qquad\qquad -5x$$

$$2 = 2 \checkmark$$

All real #'s