

You may have combined the numerators and then added the denominators. Instead, find the least common denominator and use this to rewrite each term as an *equivalent* fraction:

$$\frac{6x}{x^2 - 64} - \frac{8}{4x - 32} + \frac{2}{x + 8} = \frac{6x(4)}{4(x - 8)(x + 8)} - \frac{8(x + 8)}{4(x - 8)(x + 8)} + \frac{2(4)(x - 8)}{4(x - 8)(x + 8)}$$

Then simplify and combine the numerators.