$(4x-1)(3-2x)$ $4x-1$ 2

#11-4

$\frac{4x}{x}$ and $\frac{4+x}{x}$

a) $\frac{4x}{x} = 4$ correct?

Yes $x \neq 0$

b) $\frac{4+x}{x} = 5$ correct? sub three values in for x to justify answer. ↑ No

$x = 1$

$\frac{4+1}{1} = \frac{5}{1} = 5$ ✓ $\frac{4+2}{2} = \frac{6}{2} = 3$ x $\frac{4+3}{3} = \frac{7}{3}$ x

c) when can an expression be simplified

when numerator & denominator are single terms or products of factors

d) which is simplified correctly?

i. $\frac{x^2+x+3}{x+3} \rightarrow x^2$ No ii. $\frac{(x+2)(x+3)}{x+3} \rightarrow x+2$ Yes