

Exercise 2015-9EG-00004(4)

Simplify (the denominators are non-zero):

$$(1) \quad \frac{1-x}{6x} + \frac{3-2x}{2x^2} - \frac{x^2+x-4}{3x^2}$$

$$(2) \quad \frac{p-4}{2p+1} \times \left(\frac{4p^2-1}{p^2-6p+8} \div \frac{2p-1}{p^2-4} \right)$$

$$(3) \quad \frac{7}{t+3} + \frac{2}{t-2}$$

$$(4) \quad \frac{(x-2)(x+4)+8}{\left(\frac{1}{x} + \frac{1}{2}\right)}$$