Exercices de vérification

Simplifier les expressions algébriques suivantes (ajouter les contraintes) :

$$1.\frac{3x^2 - 12}{x^2 - 3x + 2} \div \frac{5x^2 + 10x}{3x^2 - 2x - 1}$$

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

$$3.\frac{x}{(x+1)} + \frac{2x-4}{x^2 - 4x - 5}$$

4.
$$4 - \frac{3}{x(x-1)}$$

<u>Réponses</u>

$$\frac{3}{3}\frac{(3x+1)}{5x}\left(x\notin\left\{1,2,-\frac{1}{3}\right\}\right) \qquad \frac{2)}{-3\left(x-1\right)\left(2x+1\right)}\left(x\notin\left\{0,-1\right\}\right) \qquad \frac{3)}{x-4}\left(x\notin\left\{-1,5\right\}\right) \qquad \frac{4)}{x\left(x-1\right)}\left(x\notin\left\{0,1\right\}\right)$$