**Algebraic Fractions Revision**

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| **(a)** | **(b)** | **(c)** | **(d)** |
| Simplify $\frac{x(x-5)}{x^{2}}$ | Simplify $\frac{x^{2}+2x}{x^{2}+7x+10}$ | Simplify $\frac{x^{2}-x-6}{x^{2}+6x+8}$ | Simplify $\frac{3x^{2}-13x+4}{x^{2}-16}$ |
| **(e)** | **(f)** | **(g)** | **(h)** |
| Simplify $\frac{x^{2}}{x-2}×\frac{3x-6}{4x}$ | Simplify $\frac{x(x-1)}{x^{2}+2x}÷\frac{x^{2}-1}{3x}$ | Write as a single fraction$$\frac{x}{3}+\frac{2x}{5}$$ | Write as a single fraction$$\frac{5x}{6}-\frac{x}{4}$$ |
| **(i)** | **(j)** | **(k)** | **(l)** |
| Simplify fully$$\frac{5}{x^{2}}+\frac{4}{3x}$$ | Simplify fully$$\frac{3}{x+2}-\frac{2}{x-1}$$ | Write as a single fraction$$\frac{2x-1}{5}+\frac{x+3}{4}$$ | Simplify fully$$\frac{x}{2x+4}-\frac{3}{x^{2}+5x+6}$$ |
| **(m)** | **(n)** | **(o)** |
| Solve $\frac{x}{3}+\frac{2x-1}{4}=1$ | Solve $\frac{2(x+1)}{5}=\frac{8+x}{6}$ | Solve $\frac{5}{x+3}+\frac{3}{x-1}=4$ |