Algebraic Fractions Revision

(a)	(b)	(c)	(d)
Simplify $\frac{x(x-5)}{x^2}$ $$\frac{x-5}{x}$$	Simplify $\frac{x^2+2x}{x^2+7x+10}$ $$\frac{x}{x+5}$$	Simplify $\frac{x^2-x-6}{x^2+6x+8}$ $$\frac{x-3}{x+4}$$	Simplify $\frac{3x^2-13x+4}{x^2-16}$ $$\frac{3x-1}{x+4}$$

(e)	(f)	(g)	(h)
Simplify $\frac{x^2}{x-2} \times \frac{3x-6}{4x}$ $$\frac{3x}{4}$$	Simplify $\frac{x(x-1)}{x^2+2x} \div \frac{x^2-1}{3x}$ $$\frac{3x}{(x+2)(x+1)}$$	Write as a single fraction $$\frac{x}{3} + \frac{2x}{5}$$ $$\frac{11x}{15}$$	Write as a single fraction $$\frac{5x}{6} - \frac{x}{4}$$ $$\frac{7x}{12}$$

(i)	(j)	(k)	(l)
Simplify fully $$\frac{5}{x^2} + \frac{4}{3x}$$ $$\frac{15+4x}{3x^2}$$	Simplify fully $$\frac{3}{x+2} - \frac{2}{x-1}$$ $$\frac{x-5}{(x+2)(x-1)}$$	Write as a single fraction $$\frac{2x-1}{5} + \frac{x+3}{4}$$ $$\frac{13x+11}{20}$$	Simplify fully $$\frac{x}{2x+4} - \frac{3}{x^2+5x+6}$$ $$\frac{x^2+3x-6}{2(x+2)(x+3)}$$

(m)	(n)	(o)
Solve $\frac{x}{3} + \frac{2x-1}{4} = 1$ $$x = 1.5$$	Solve $\frac{2(x+1)}{5} = \frac{8+x}{6}$ $$x = 4$$	Solve $\frac{5}{x+3} + \frac{3}{x-1} = 4$ $$x = 2, x = -2$$