Match-Up — Simplifying Algebraic Fractions

Simplify each of the algebraic fractions then find matching threes of equivalent fractions

1	$\frac{x(x+1)}{(x+1)(x+2)}$	**A**	$\frac{x^2+6x+8}{(x+4)(x-1)}$	**a**	$\frac{10x^2+2x}{(5x+1)(x-7)}$
2	$\frac{2x^2+4x}{10x}$	**B**	$\frac{3x^2-x-2}{(x-5)(x-1)}$	**b**	$\frac{2x^2+5x+2}{10x+5}$
3	$\frac{(x-1)(x+9)}{(x+9)(x+4)}$	**C**	$\frac{2x^2-9x+4}{(x-4)^2}$	**c**	$\frac{x^3+11x^2+18x}{x^3+x^2-2x}$
4	$\frac{x^2+2x}{x^2-x}$	**D**	$\frac{x^2}{x^2+2x}$	**d**	$\frac{x^2-4x-21}{2x^2-13x-7}$
5	$\frac{3x+9}{6x+3}$	**E**	$\frac{(x+2)(2x-1)}{5x^2+11x+2}$	**e**	$\frac{x^2-3x}{x^2-x-6}$
6	$\frac{5x(3x+2)}{5x^2-25x}$	**F**	$\frac{2x(2x+1)}{(2x+1)(x-7)}$	**f**	$\frac{4x^2-1}{10x^2+7x+1}$
7	$\frac{4x^3}{2x^3-14x^2}$	**G**	$\frac{x^2-1}{(x+1)(x+4)}$	**g**	$\frac{3x^2+17x+10}{x^2-25}$
8	$\frac{2x^2-x}{5x^2+x}$	**H**	$\frac{x^2+8x-9}{x^2-2x+1}$	**h**	$\frac{x^2-3x-10}{x^2-6x+5}$
9	$\frac{2-4x}{8-2x}$	**I**	$\frac{2x(x+3)}{4x^2+2x}$	**i**	$\frac{10x^2+x-3}{5x^2-17x-12}$
10	$\frac{(3x+1)(x+9)}{(x-1)(3x+1)}$	**J**	$\frac{(x-3)(x+2)}{5x-15}$	**j**	$\frac{x^2+2x-3}{x^2+7x+12}$

1	2	3	4	5	6	7	8	9	10