

Complete as many of the following problems as you can. You do not have to go in order. You can use a calculator to check your work but not to solve the problems.

If **your entire table** finishes early, you may leave early.

Simplify the following expressions:

$$(1) \frac{3}{x+6} - \frac{5}{x-3}$$

$$(2) \frac{x+5}{x^2+13x+36} - \frac{10x}{x^2+10x+9}$$

$$(3) \frac{x-3}{2x} - \frac{7}{x+8}$$

$$(4) \frac{5x^2-1}{6x+1} - \frac{3x^2-4x-2}{6x+1}$$

$$(5) \frac{5x}{2} + \frac{3}{4x+2}$$

$$(6) \frac{4x+1}{x^2-9} + \frac{3x-4}{x-3}$$

$$(7) \frac{4}{x-1} - \frac{7}{3x+5}$$

$$(8) \frac{x-4}{x^2+8x+15} - \frac{x+1}{x^2-25}$$

$$(9) \frac{x+3}{x-2} + \frac{x+4}{x+2}$$

$$(10) \frac{4x-7}{x^2+5x+6} + \frac{3x+5}{x^2+5x+6}$$