Name: _____

Rational Expressions

1) Which of the following fractions are the same as each other (equivalent)?

    1) $\dfrac{ax}{bx}$, $\dfrac{a}{b}$, $\dfrac{a(c+d)}{b(c+d)}$, $\dfrac{a^2x}{abx}$

    2) $\dfrac{x}{x+y}$, $\dfrac{xz}{xz+yz}$, $\dfrac{xp}{x+yp}$

    3) $\dfrac{ab+ac}{ad}$, $\dfrac{ab+c}{ad}$, $\dfrac{b+c}{d}$

2) Factorize and cancel down the following fractions if possible.

    1) $\dfrac{2x+6y}{6x-8y}$ 2) $\dfrac{6a-9b}{4a-6b}$

    3) $\dfrac{px-pq}{p^2-px}$ 4) $\dfrac{3x+2y}{6x}$

    5) $\dfrac{2xy+5xz}{6x}$ 6) $\dfrac{x^2-y^2}{(x+y)^2}$

    7) $\dfrac{x^2+5x+6}{x^2+x-2}$