

HW #3:

Adding and Subtracting Rational Expressions with Unlike Denominators II

Simplify each expression.

$$1) \frac{x}{x^2-4} + \frac{1}{x-2}$$

$$2) \frac{3}{y^2-9y} - \frac{2}{y^2-8y-9}$$

$$3) \frac{2}{w^2+3w+2} + \frac{4}{w^2+6w+8}$$

$$4) \frac{t}{t^2-25} - \frac{1}{t^2-10t+25}$$

$$5) \frac{n}{n^2-2n-3} - \frac{1}{n^2-5n+6}$$

$$6) \frac{v}{2v^2+7v-4} + \frac{2}{2v^2-9v+4}$$

$$7) \frac{3}{a^2-6a} - \frac{a}{3a^2-17a-6}$$

$$8) \frac{3}{x^3-4x^2} + \frac{2}{x^3-8x^2+16x}$$

$$9) \frac{5}{b^2-b+1} - \frac{b}{b^3+1}$$

$$10) \frac{x}{x^2-y^2} + \frac{y}{x^2-4xy-5y^2}$$