

# Unit 3---Lesson 3-CLASSWORK/HOMEWORK

1.  $\frac{x^2-49}{6x^3} \cdot \frac{8x^2}{x^2+7x}$

$$\frac{4(x-7)}{3x^2}$$

2.  $\frac{x-4}{x^3+4x^2} \cdot \frac{9x^2+36x}{4-x}$

$$-\frac{9}{x}$$

3.  $\frac{2x^2-200}{4x^2-40x} \cdot \frac{7x+21}{x^2+7x-30}$

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

4.  $\frac{6x^5}{x^2-11x+18} \div \frac{15x^2}{x^2+7x-18}$

$$\frac{2x^3(x+9)}{5(x-9)}$$

5.  $\frac{25-x^2}{5x^4} \div \frac{x-5}{x^4+5x^3}$

$$\frac{-(x+5)^2}{5x}$$

6.  $\frac{x^2-5x+24}{8x^2+8x} \div (x^2+6x+9)$

$$\frac{x^2-5x+24}{8x(x+8)(x+3)^2}$$

