MATH 0372 – POLYNOMIALS - DIVISION

Instructions: Perform each of the following using long division or synthetic division, if possible.

1. $\dfrac{6x^3+12x^2-9x}{3x}$

2. $\dfrac{9x^4y^4+18x^3y^4-27x^2y^4}{-9xy^3}$

3. $\dfrac{x^3+2x^2-25x+50}{x+5}$

4. $\dfrac{6y^3-8y-32}{2y-4}$

5. $\dfrac{y^4-16}{y-2}$

6. $\dfrac{2x^4+x^3+4x-3}{2x^2-x+3}$

7. $\dfrac{3x^3-5x^2+2x-1}{x-2}$

8. $\dfrac{9y^3-6y^2+8}{3y-3}$

MATH 0372 – POLYNOMIALS - DIVISION

1. $\mathbf{2x^2+4x-3}$	2. $\mathbf{-x^3y-2x^2y+3xy}$	3. $\mathbf{x^2-3x+10}$
4. $\mathbf{3y^2+6y+8}$	5. $\mathbf{y^3+2y^2+4y+8}$	6. $\mathbf{x^2+x-1}$
7. $\mathbf{3x^2+x+4-}\frac{7}{x-2}$	8. $\mathbf{3y^2+y+1+}\frac{\mathbf{11}}{\mathbf{3}y-\mathbf{3}}$	9.