### 2.4 Polynomial Operations

-D- Division of Polynomials
Case 1- Polynomial divided by a constant:

Ex 1: $\quad(4 x+8) \div 2=$


Ex 2: $\quad \frac{6 x-18}{3}=$

Ex 3: $\quad \frac{8 x^{2}+12 x+16}{4}=$

Case 2-Polynomial divided by a Monomial:

Ex 1: $\quad\left(4 x^{2}+2 x\right) \div 2 x=$

Ex 2: $\quad \frac{-14 x^{3}+35 x^{2}}{7 x^{2}}=$ Divide each term by the Monomial. Following the laws of exponents.

Ex 3: $\quad \frac{4 x^{3}+8 x^{2}-6 x}{2 x}=$

Ex 4 : Simplify by dividing

$\qquad$
$\frac{18 x^{2}+8 x+6}{3}$
$\frac{20 x y^{5}-15 x y^{2}+30 x^{2} y^{4}}{5 x y}$
릅 $\qquad$

