

**HOMEWORK # 9: DIVIDING A POLYNOMIAL BY A MONOMIAL****Directions:** Find each quotient. Write all final answers in simplest form.

1.  $\frac{25x^5}{5x^2}$

2.  $\frac{48m^3}{3m^4}$

3.  $\frac{-5x^2y^3z^4}{15x^4y^2z^4}$

4.  $\frac{15x - 12}{3}$

5.  $\frac{12k^2 - 20k}{4k}$

6.  $\frac{6a^2 + 21a}{3a^2}$

7.  $\frac{2y^3 - 18y^2}{2y^2}$

8.  $\frac{4v^3 - 3v^2 + v}{v}$

9.  $\frac{6c^2d - 14cd^2 + 2d^3}{2}$