

M9 - 5.3 - Multiplying Monomials HW

Multiply the following polynomials.

$$6 \times 2a = 12a$$

$$5m \times 2m =$$

$$2x \times 3x^2 =$$

$$-4 \times 3m =$$

$$-5n \times -2n =$$

$$-5x^3 \times 2x^2 =$$

$$3x^2 \times 6 =$$

$$a \times a \times a =$$

$$x^3 \times 3x^2 =$$

$$a \times a =$$

$$2a \times a =$$

$$(-5x)(3x) =$$

Multiply the following polynomials.

$$3(2a) =$$

$$x^2(-x) =$$

$$2ab^3(ab^2) =$$

$$-2a(-3) =$$

$$2x(5x) =$$

$$3ab^2(2b) =$$

$$-5x(-2x) =$$

$$-3a^2(2a) =$$

$$-2a^2b(-b^2) =$$

$$3xy \times 9xz =$$

$$5x^2y^3 \times 9xy^3 =$$

$$-2x^4y^2 - 3x^{-1}y^3 =$$

$$5x^2 \times yz =$$

$$5^2 \times yz =$$

$$5^2 \times 3^2xyz =$$

M9 - 5.3 - Dividing Monomials HW

Divide the following polynomials.

$$6a \div 2 = \textcircled{3a}$$

$$8m \div 2m =$$

$$9x^2 \div 3 =$$

$$12x \div -4x =$$

$$-6m \div 3 =$$

$$-10n \div -2n =$$

$$(-15x) \div (3x) =$$

$$-8m^2 \div (-2m) =$$

$$18x^3 \div 3x^2 =$$

$$-4x^3 \div 2x^2 =$$

$$x \div x =$$

$$\frac{6a}{2} =$$

$$\frac{5}{5} =$$

$$\frac{1}{1} =$$

$$\frac{6x}{2x} =$$

$$\frac{4a^2}{a} =$$

$$\frac{6a^2}{2a} =$$

$$\frac{a}{a} =$$

$$\frac{x^4}{2x^2} =$$

$$\frac{12x^3}{4x^2} =$$

$$\frac{-4x}{-10x^2} =$$

$$\frac{2a}{3a^2} =$$

$$\frac{15st^2}{t} =$$

$$\frac{4st}{-6st} =$$

$$\frac{-2st^2}{4s^2t^2} =$$

$$\frac{10b^2c}{5c^2} =$$

$$\frac{3x^2}{15y} =$$

$$\frac{24x^2y^3}{16x^3y} =$$

$$\frac{ab^2}{-3ac} =$$

$$\frac{-2x^2}{-x} =$$

$$\frac{-2x}{x^2} =$$

M9 - 5.3 - Dividing Polynomials W=HW

Separate into an addition/subtraction of fractions and simplify.

$$\frac{4x + 2}{2} = \frac{4x}{2} + \frac{2}{2} = 2x + 1$$

$$\frac{6x - 3}{3} =$$

$$\frac{-5x + 10}{2} =$$

$$\frac{4x + 2}{-2} =$$

$$\frac{6x - 3}{-3} =$$

$$\frac{-5x + 10}{-2} =$$

$$\frac{-6x - 6}{3} =$$

$$\frac{5x - 10y}{5} =$$

$$\frac{6x + 8y}{-2} =$$

$$\frac{4x^2 - 8x - 16}{4} =$$

$$\frac{6x^2 - 12x + 18}{-6} =$$

$$\frac{-5x^2 - 10x + 20}{-5} =$$

$$\frac{5x^2 - 10xy + 20}{-5x} =$$

$$\frac{5x^2 + x}{x} =$$

$$\frac{3x^2 - x}{x} =$$

$$\frac{-5x^2 - 3y}{x} =$$

$$\frac{4x^2 + 2x}{-x} =$$

$$\frac{8x^2 + 4x}{2x} =$$

$$\frac{-9x - 3y}{3x} =$$

$$\frac{-10x^2 - 5x}{-5x} =$$

$$\frac{10x^2 - 7x}{5x} =$$

$$\frac{9x^3 + 6x^2 - 3x}{3x} =$$

$$\frac{3x - 6}{x^2} =$$

$$\frac{5x - 7}{-2x} =$$

$$\frac{30x^2 - 20xy + 15y^2}{x} =$$

$$\frac{2x^2 - 6xy + 4y^2}{2y^2} =$$

$$\frac{3xy - 4x + 5x^2}{-x} =$$

$$\frac{5ab - 10b^2 + 3a}{ab} =$$