

Alg1

# March 14, 2012

## Get out Lime Review Worksheet

3.141592653589793238462643383
279502884197169399375105820974944
59230781640628620899862803482534211
70679821480865132823066470938446095
50582231 725359408 128481117
45028410 270193852 1105559544
622948 954930381 9644288109
75 665933446 128475 6482
3378678316 5271201909
145648566 9234603486
1045432664 8213393607
2602491412 7372458700
66063155881 74881520920 962829
25409171536 43678925903600113305
3054882046652 1384146951941511609
43305727036575 959195309218611738
19326117931051 18548074462379962
7495673518857 527248912279381
8301194912 9833673362
44065 66430

## Happy Pi Day!!!

## 3/14 - Adding/Subtracting Polynomials

### Definitions:

**Polynomial:** Many terms added

**Term:** #'s and/or Variables multiplied

**Binomial:** Two terms added

**Trinomial:** Three terms added

**Monomial:** One term

**Coefficient:** # in front of the variable

**Constant:** # without a variable

**Degree:** total # of variables:  $5n^4$  is degree 4

**Descending Order of Powers:**

Biggest exponents go first.

**Simplify these polynomials by  
adding/subtracting LIKE terms:**

$$\begin{aligned}(\underline{2} + \cancel{8r}) + (\underline{4} - \cancel{8r}) \\= 6\end{aligned}$$

$$\begin{aligned}(\underline{8k^3} + \cancel{5k}) + (\cancel{4k^3} - \underline{6}) \\= 12k^3 + 5k - 6\end{aligned}$$

$$\begin{aligned}(\underline{3b^3} + \cancel{3b^4}) + (\cancel{6b^3} - \cancel{6b^4}) \\= -3b^4 + 9b^3\end{aligned}$$

$$\begin{aligned}
 & (8a^4 - 7a) - \overbrace{(2a + 3a^4)}^{\text{change sign}} \\
 = & \underline{8a^4} - \underline{7a} - \underline{2a} - \underline{3a^4} \\
 = & \underline{5a^4} - \underline{9a}
 \end{aligned}$$

$$\begin{aligned}
 & (8x + 5x^4) + \overbrace{(x + 7x^4)}^{\text{ADD}} \\
 & = 12x^4 + 7x
 \end{aligned}$$

$$\begin{aligned}
 & (\underline{2v^4} + \underline{4v}) + (\underline{3v^3} + \underline{2v^4}) \\
 & = 4v^4 - 3v^3 + 4v
 \end{aligned}$$

$$(7n^3 + 8n + 1) + (n + 2n^3)$$
$$= 9n^3 + 9n + 1$$

$$(5 + 2x - 8x^2) - (7 + 4x^3 + 3x)$$
$$= 4x^3 - 8x^2 + 5x - 2$$

$$\begin{aligned} & (\underline{4n^4} + \underline{2n}) + (\underline{4n^4} - \underline{4n}) + (\underline{5n} + \underline{4n^4}) \\ &= (2n^4 - 7n) \end{aligned}$$

$$\begin{aligned} & \underline{(x - 7x^4)} + \underline{(5x^4 - 2x + 2)} + \underline{(2x + x^3)} \\ &= -12x^4 + x^3 - 3x + 2 \end{aligned}$$

of Homework

Green Polynomials WS1

Due Friday