Simplify and write in Standard Form

1. $2x(3x+5) =$

$6x^2 + 10x$

2. $-4x^2(2x+3x^2-1) =$

$-12x^4 - 8x^3 + 4x^2$

$-8x^3 - 12x^4 + 4x^2$

Factor

3. $18x^7 - 24x^5 + 6x^2 =$

$6x^2(3x^5 - 4x^3 + 1)$

(39) $\frac{7g^2k^3}{7g^2k^2} - \frac{35g^5k^2}{7g^2k^2}$

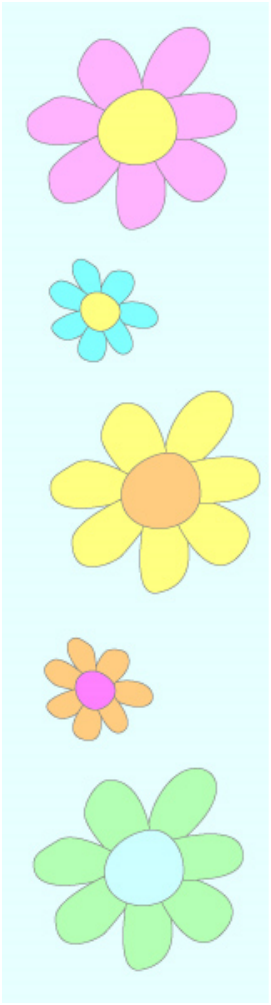
$7g^2k^2(k - 5g^3)$

(21) $\frac{10x^3}{5} + \frac{25x^2}{5} + \frac{20}{5}$

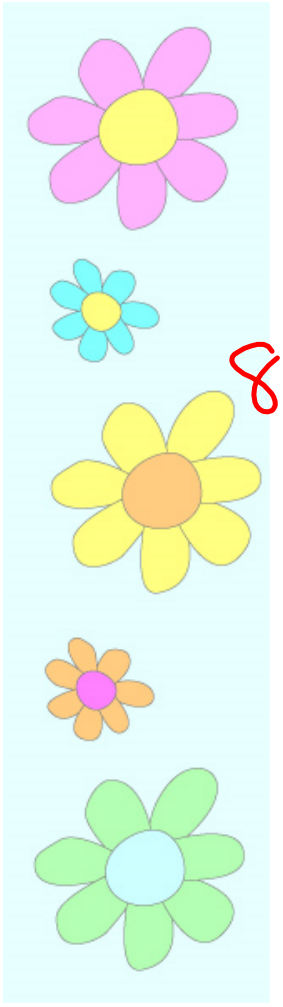
$5(2x^3+5x^2+4)$

$5x^4+4x^3+3x^2$

$x^2(5x^2+4x+3)$



# Section 9.3
# Multiplying Binomials



Using F.O.I.L. . . . .

$(8w+2)(w+5)=$

$8w^2+40w+2w+10$

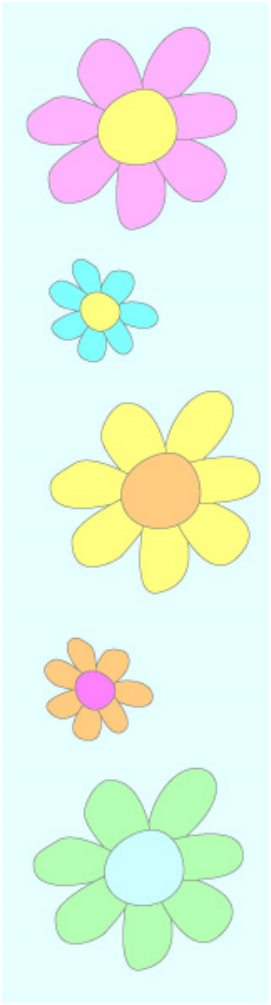
$8w^2+42w+10$

First

Outside

Inside

Last

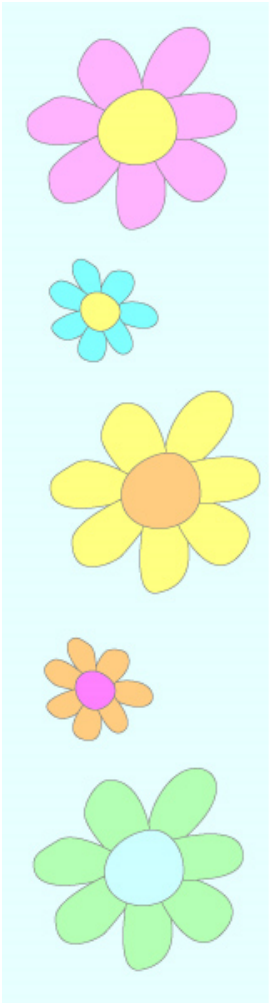


Using area to multiply . . .

$(5a+2)(6a-1) =$

$30a^2 - 5a + 12a - 2$

$30a^2 + 7a - 2$

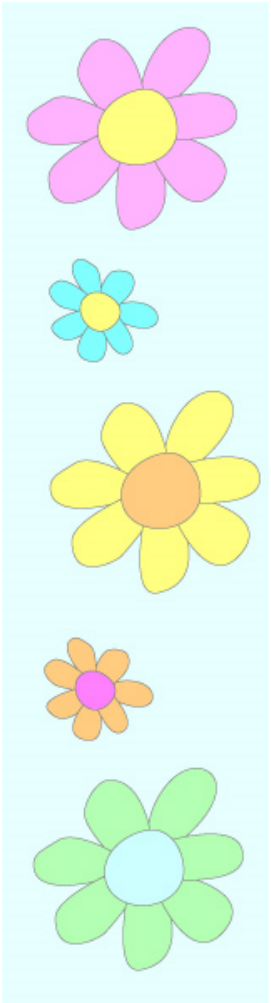


Using the Distributive Property . . .

$(2y+5)(y-3)=$

$2y^2-6y+5y-15$

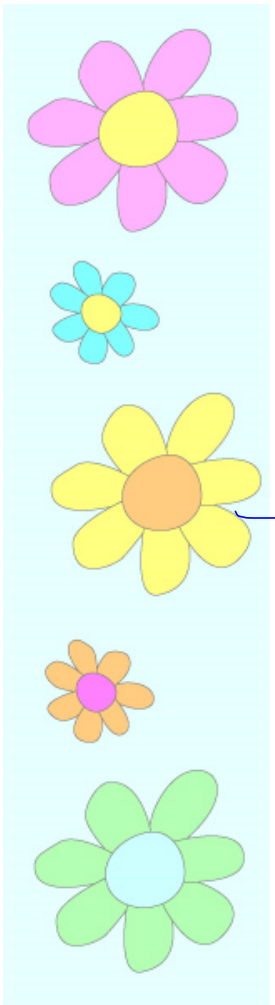
$2y^2-y-15$



$(3k^2+2)(k+5k^2)=$

$3k^3+15k^4+2k+10k^2$

$15k^4+3k^3+10k^2+2k$

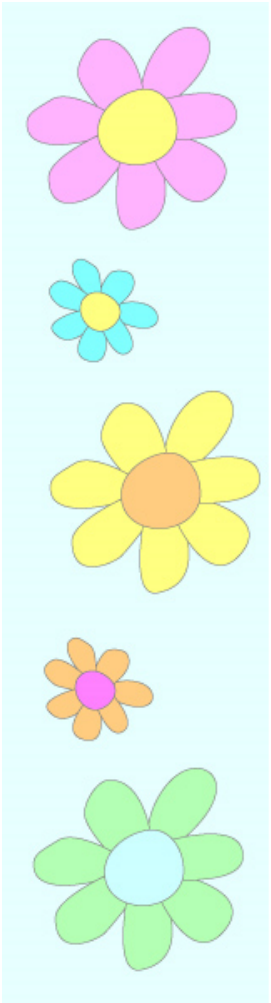


$$(x+9)(x^2-4x+1)=$$

$x^3-4x^2+x$

$+9x^2-36x+9$

$x^3+5x^2-35x+9$



Homework:

p. 507 (5-19, 30-38)

Quiz ~~Thursday~~ Friday over Sections 9.1 - 9.2