Factor the common factor out of each expression.

① Find GCF

greatest common Factor

1) $\frac{30}{6} - \frac{6x}{6} - \frac{18x^2}{6}$

$= 6(5 - 1x - 3x^2)$

Factor the common factor out of each expression.

GCF

$\frac{n^4}{n^1}$ — 3

2) $\frac{-3n^4}{1n^1} + \frac{3n^3}{1n^1} + \frac{1n}{1n^1}$

$= n(-3n^3+3n^2+1)$

Descending = Big to Small

When we divide by exponents you SUBTRACT

Factor each completely.

$5)\ n^2 - 5n + 6$

$(n-2)(n-3)$

+	×	+	= +
−	×	−	= +
+	×	−	= −
−	×	+	= −

$\otimes$ 6

$+ + = +$

$- - = +$

$+$ −5

$-, -$

1, 6

−2, −3

Factor each completely.

6) $p^2 - 5p - 14$

Product (×) -14

sum (+) -5

$(p+2)(p-7)$

check using FOIL

$(p+2)(p-7)$

$= p^2 - 7p + 2p - 14$

$= p^2 - 5p - 14$

$+1$	-14	$= -13$
$+14$	-1	$= 13$
$+2$	-7	-5
$+7$	-2	

Homework:

Factoring #1 - #7, 8, 9, 10, 11, 12, 14, 17, 18, 19
Bonus: #13, 15, 16, 20, 21, 22