Factor each completely.

1. $-48p^2q^5r - 42p^4q^3r^3$

$-6p^2q^3r(8q^2 + 7p^2r^2)$

2. $4m^2 - 5m - 21$

	m	-3
4m	$4m^2$	-12m
7	7m	-21

-84, -12, 7, $-5m$

$(4m + 7)(m - 3)$

3. $k^2 + 10k - 24$

-24, -2, 12, 10

	k	-2
k	k^2	-2k
12	12	-24

$(k - 2)(k + 12)$

4. $6c^3 + 6c^2 - 120c$

$6c(c^2 + c - 20)$

$6c(c + 5)(c - 4)$

-20, 5, -4, 1

5. Find the x-intercepts of this quadratic by factoring:

$y = 2x^2 - 3x - 20$ = (2x + 5)(x - 4)

x-int are +4 and -5/2

-40, -8, 5, -3

	x	-4
2x	$2x^2$	-8x
+5	5x	-20