

Factoring Refresher

Quadratic equations can be solved by factoring as well.
Use the problems below to refresh your factoring skills ☺

SET 1: Greatest Common Factor

1. $12k - 18$

$\cancel{3}(4k - 6)$

3. $14m^6 - 35m^3 - 7m^2$

$\cancel{7}m^2(2m^4 - 5m + 1)$

** When factoring, always look for a _____ first! **

SET 2: Trinomials ($ax^2 + bx + c$, where $a = 1$)

5. $x^2 + 14x + 45$

$(x + 5)(x + 9)$

7. $c^2 + 2c - 48$

$(c + 8)(c - 6)$

9. $a^2 + 12a + 36$

$(a + 6)(a + 6)$

11. $2k^2 - 16k - 40$

$2(k - 10)(k + 2)$

SET 3: Trinomials ($ax^2 + bx + c$, where $a > 1$)

13. $2x^2 - 15x + 18$

$2(x - 6)(x - 3)$

15. $3h^2 - 19h - 40$	[REDACTED]
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17. $6y^2 - 5y - 21$	[REDACTED]

19. $9x^2 - 12x + 4$	[REDACTED]

SET 4: Difference of Squares	
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21. $x^2 - 4$	[REDACTED]

23. $9x^2 - 25y^4$	[REDACTED]

25. $72r^6 - 2s^2$	[REDACTED]