Kuta Software - Infinite Algebra 1 Name_____

Factoring Trinomials (a = 1)

Date_____ Period____

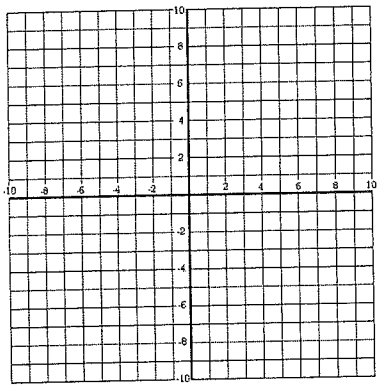
graphing

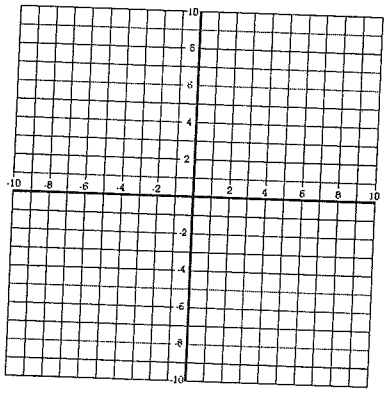
Factor each completely. Find the roots and vertex. Graph.

~~1) $b^2+4b+3=y$~~ ~~2) $n^2-11n+10$~~

3) $m^2+m-90=y$

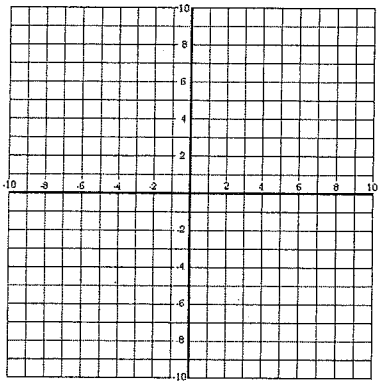
4) $n^2+4n-12=y$

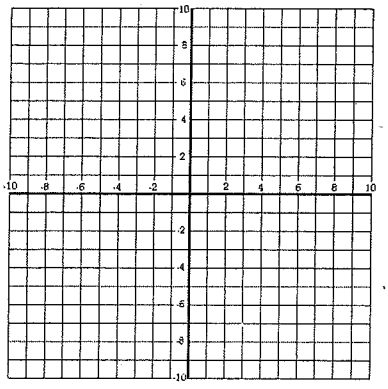




9) $k^2-13k+40=y$

10) $a^2+11a+18=y$



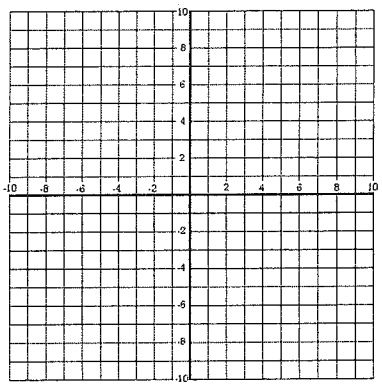


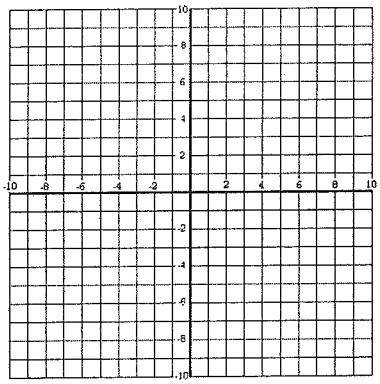
13) ~~$b^2 - 6b + 8$~~ 14) ~~$n^2 + 6n + 8$~~

* Factor GCF first

15) $2n^2 + 6n - 108 = y$

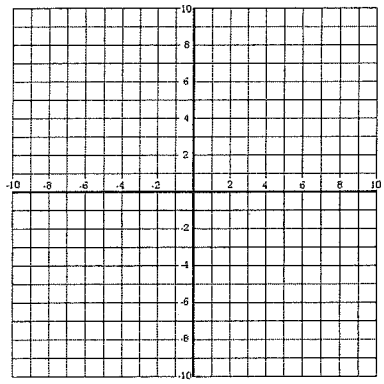
16) $5n^2 + 10n + 20 = y$

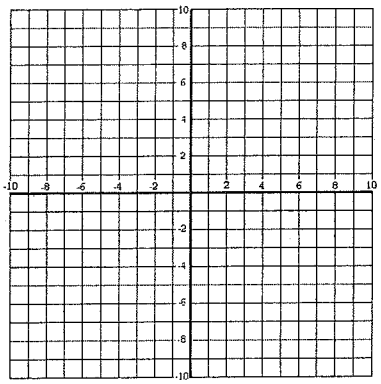




21) $2p^2 + 2p - 4 = y$

22) $4v^2 - 4v - 8 = y$





Kuta Software - Infinite Algebra 1 Name_____

Solving Quadratic Equations by Factoring

Date_____ Period____

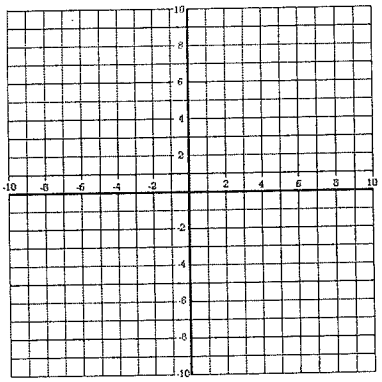
Solve each equation by factoring.

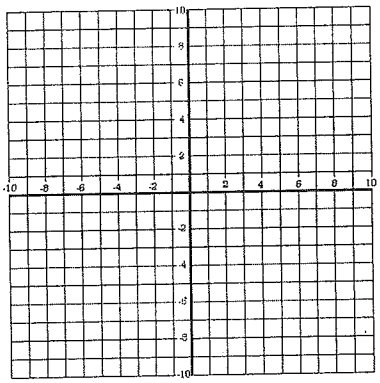
1) $(k+1)(k-5)=0$

2) $(a+1)(a+2)=0$

3) $(4k+5)(k+1)=0$

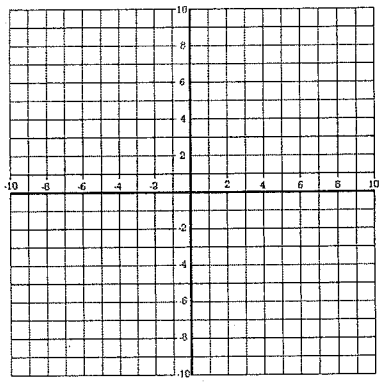
4) $(2m+3)(4m+3)=0$

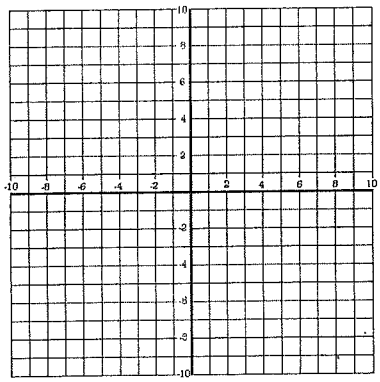




7) $n^2-10n+22=-2$

8) $n^2+3n-12=6$



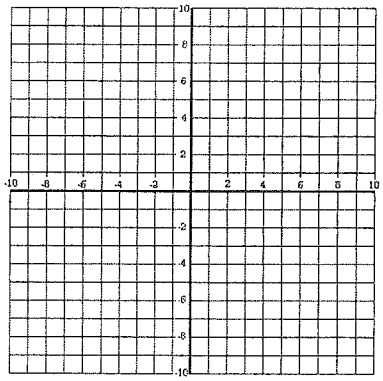


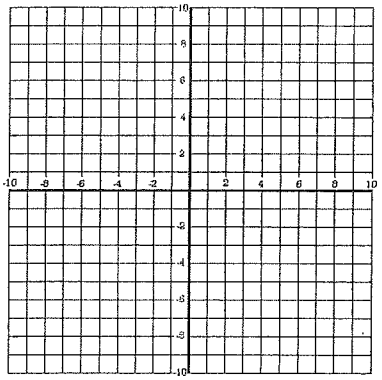
11) ~~$n^2 + 8n = 48$~~

12) ~~$15r^2 = 44r + 120 = -30 + 11r$~~

13) $-4k^2 - 8k - 3 = -3 - 5k^2$

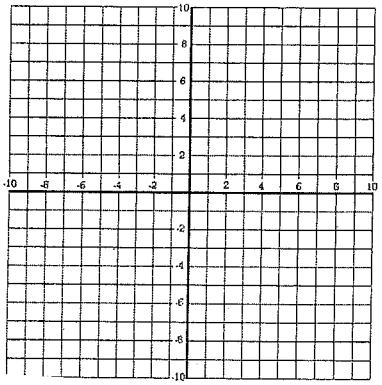
14) $b^2 + 5b - 35 = 3b$

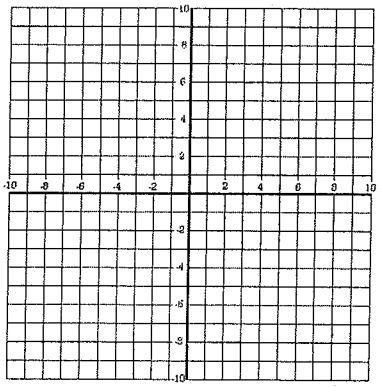


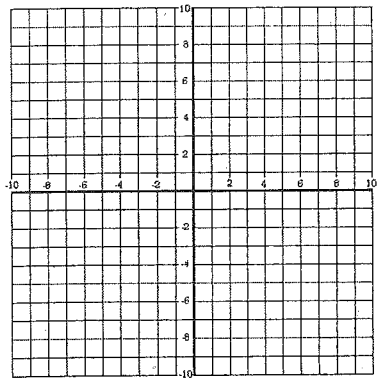


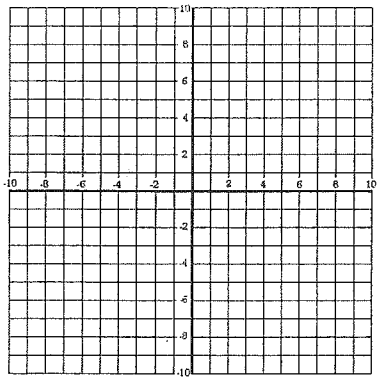
19) $7x^2 + 2x = 0$

20) $10b^2 = 27b - 18$



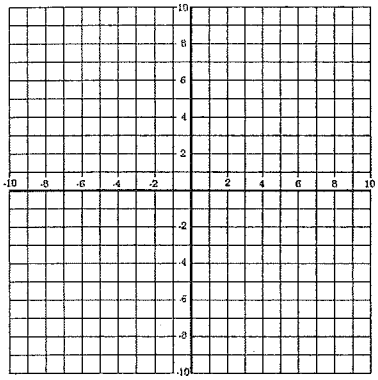


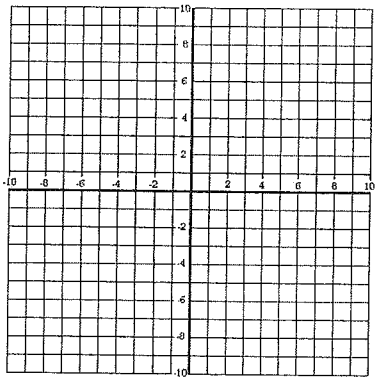




15) $3r^2 - 16r - 7 = 5$

16) $6b^2 - 13b + 3 = -3$





21) $8x^2 + 21 = -59x$

22) $15a^2 - 3a = 3 - 7a$