

Graphing in Standard Form

Date _____ Period _____

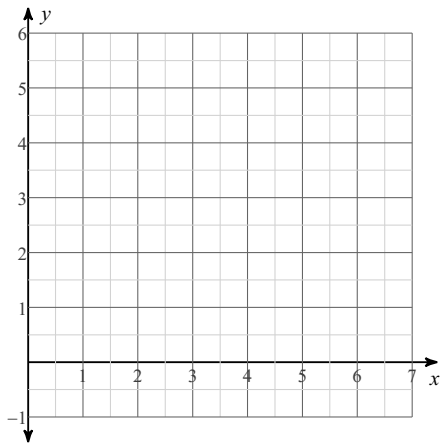
Identify a , b , and c . Then find the x -intercepts using quadratic formula.

1) $y = 4x^2 + 3x - 7$

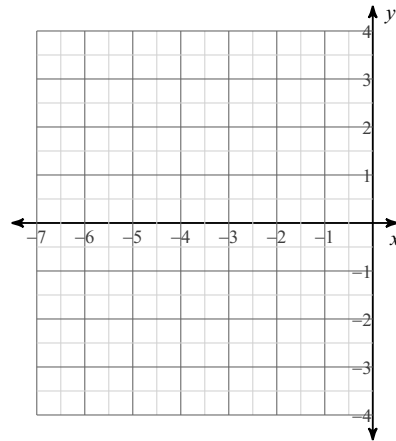
2) $f(x) = 10x^2 - 8x - 13$

Graph the quadratic equation. List all key features. *Watch the scale of your graph.

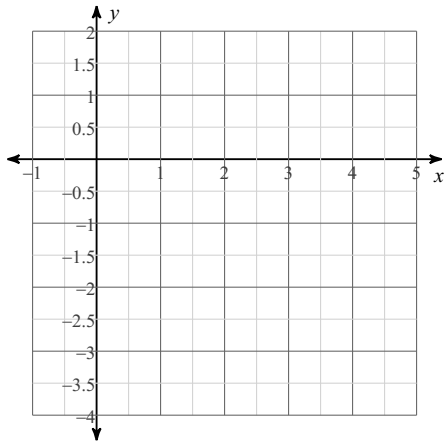
3) $y = \frac{1}{2}x^2 - 4x + 10$



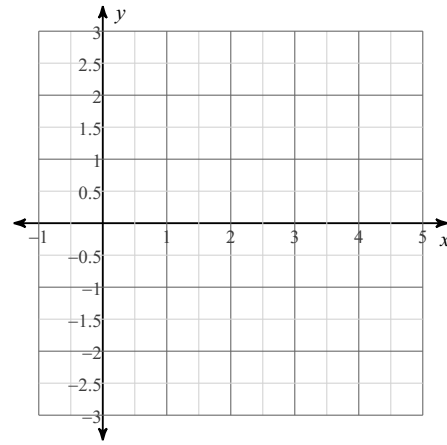
4) $y = x^2 + 8x + 14$



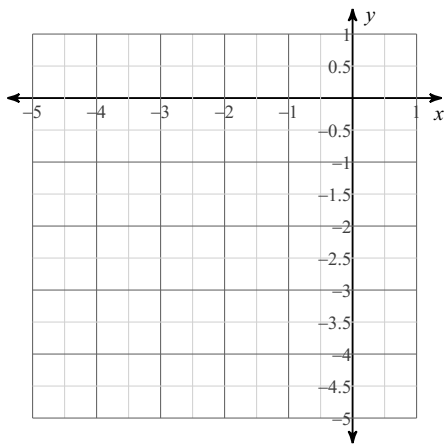
5) $y = -x^2 + 6x - 8$



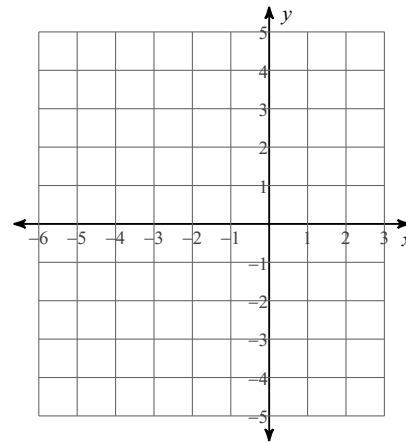
6) $y = x^2 - 4x + 2$



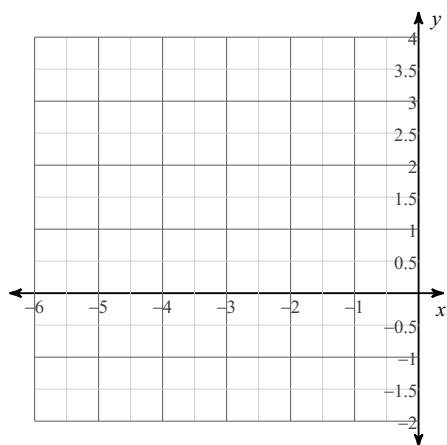
7) $y = -\frac{1}{2}x^2 - 2x - 3$



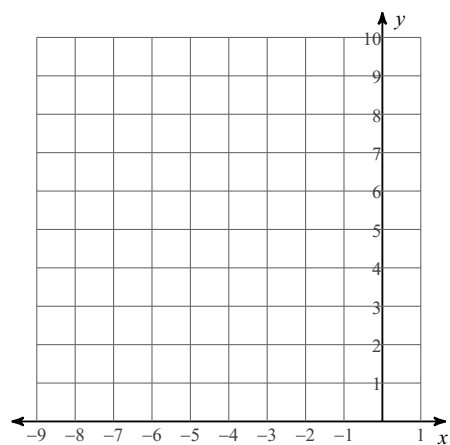
8) $y = 2x^2 + 16x + 28$



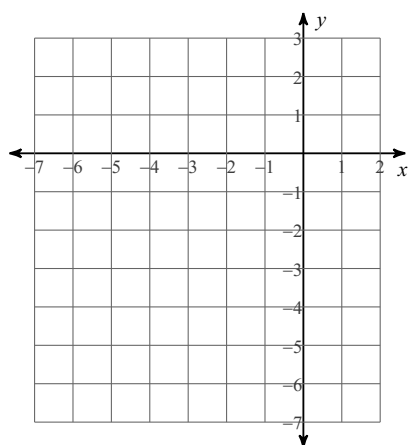
9) $y = -x^2 - 6x - 6$



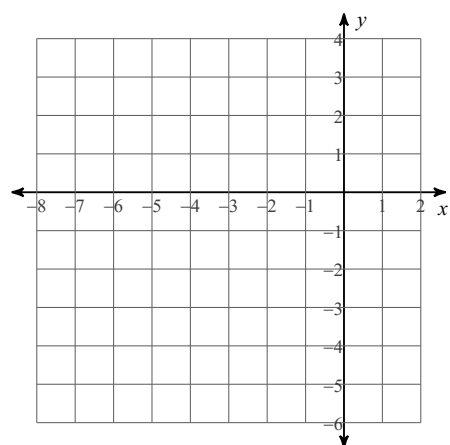
10) $y = 2x^2 + 8x + 9$



11) $y = -2x^2 - 16x - 30$



12) $y = -2x^2 - 4x + 1$



Factor each completely.

13) $v^2 - 9$

14) $-3p^2 + 18p$

15) $x^2 + 2x + 1$

16) $r^2 + 18r + 80$

17) $m^2 - 8m + 7$

18) $x^2 + 9x + 18$

19) $-5a^2 - 5a + 60$

20) $9x^2 - 4$

21) $r^2 - 10r + 25$

22) $-2b^2 + 16b$