

Graphing Quadratics in Factored Form.

Date _____ Period _____

State the key features(x-ints, y-int, vertex, axis of symmetry, and Max/Min) then only graph the information that fits on a 10X10 Graph. YOU MUST DRAW THE U SHAPE!!!!

1) $(x + 5)(x + 1) = 0$

2) $n(n + 4) = 0$

3) $(3k - 1)(k - 3) = 0$

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

5) $x(x - 5) = 0$

6) $-(a - 4)(a + 2) = 0$

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

8) $3(x + 1)(x - 1) = 0$

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1) $(x + 5)(x + 1) = 0$

$\{-5, -1\}$

2) $n(n + 4) = 0$

$\{-4, 0\}$

3) $(3k - 1)(k - 3) = 0$

$\left\{\frac{1}{3}, 3\right\}$

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

$\{1, -2\}$

5) $x(x - 5) = 0$

$\{5, 0\}$

6) $-(a - 4)(a + 2) = 0$

$\{4, -2\}$

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

$\{-2\}$

8) $3(x + 1)(x - 1) = 0$

$\{-2, 2\}$