

Warm up!

Given the equation, list all the methods you could use to solve the equation. (Some methods will not work for every equation.)

DO NOT SOLVE.

1. $x^2 + 81 = 0$ $x^2 + 0x + 81 = 0$ Square root, quad. Form
2. $x^2 + 16x + 64 = 0$ Factoring, graphing, Quad. Form
3. $2x^2 + 10x + 24 = 0$ quad. Form
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Describe what you look for in determining which method is best to solve a quadratic equation:

a) Square Root:

look for equation
 $a(x-h)^2 + k = 0$ OR $x^2 \pm k = 0$

b) Factoring:

① Find discriminant
 ② disc = Perf. sq. # OR zero

c) Graphing:

same as factoring OR
 when we have a word prob., **Disc = positive**

d) Quadratic Formula:

① Find disc.
 ② disc = neg
 disc = pos. # that is not a perf. sq.