

Approximating Solutions

Home Link 6-1

NAME _____

DATE _____

TIME _____

For each equation, try to get as close as possible to the exact solution. Use the suggested test numbers to get started. Round numbers to the nearest thousandth.



① Equation: $r^2 + r = 15$

r	r^2	$r^2 + r$	Compare ($r^2 + r$) to 15
3	9	12	< 15
4	16	20	> 15
3.5	12.25	15.75	> 15

My closest number: _____

② Equation: $x^2 - 2x = 23$

x	x^2	$2x$	$x^2 - 2x$	Compare ($x^2 - 2x$) to 23
6	36	12	24	> 23
5	25	10	15	< 23
5.5	30.25	11	19.25	< 23

My closest number: _____

Practice

Rewrite each expression in exponential notation.

③ $9 * 9 * 9$ _____

④ $7 * 7 * 7 * 7 * 7$ _____

⑤ $6.2 * 6.2$ _____