Key Features of
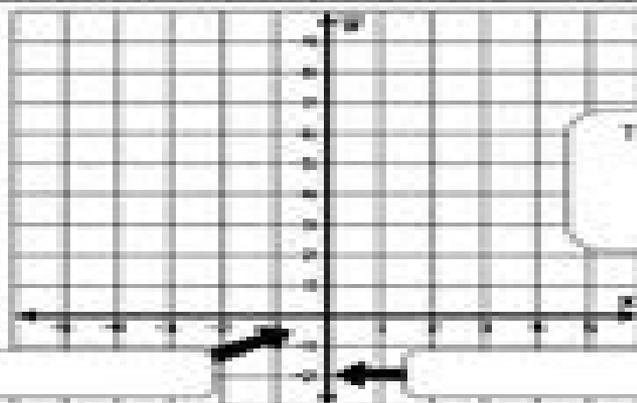# QUADRATIC FUNCTIONS

WHAT DOES THE GRAPH OF THE QUADRATIC PARENT FUNCTION LOOK LIKE?

$f(x) = x^2$

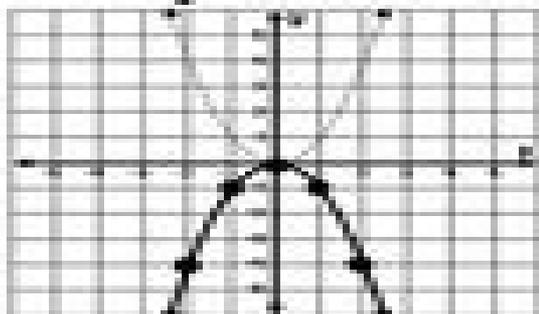| x	f(x)
-3	
-2	
-1	
0	
1	
2	
3	

This function has a _____ and opens _____

This function decreases over the interval _____ and increases over the interval _____.

HOW DOES "A" AFFECT THE GRAPH OF A QUADRATIC?

$g(x) = -x^2$

When a < 0 (negative)
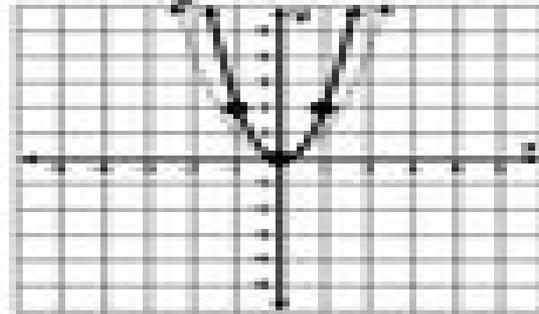the graph of $g(x) = ax^2$

$g(x) = \frac{1}{2}x^2$
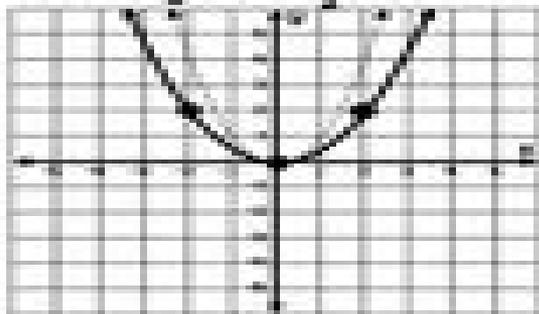
When $0 < |a| < 1$,
the graph of $g(x) = ax^2$ is
_____
than the graph of $f(x) = x^2$.

$g(x) = 2x^2$

When $|a| > 1$
the graph of $g(x) = ax^2$ is
_____
than the graph of $f(x) = x^2$.

Use the value of a to compare each function below with the quadratic parent function.

1 $g(x) = 5x^2$

2 $h(x) = -3x^2$

3 $g(x) = \frac{1}{3}x^2$

4 $h(x) = 0.8x^2$

5 $g(x) = -7.5x^2$

6 $h(x) = -\frac{2}{3}x^2$

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Gerver,South-Western Educational Publishing,1998   <u>Algebra 1 Answer Key for Student Edition and Workbook</u> Globe Fearon,1999   <u>Glencoe Algebra 1</u> ,2001   **Instructors Resource Guide** Consortium,2001-11   **Student's Solutions Manual Intermediate Algebra** Judith A. Penna,Marvin L. Bittinger,David J. Ellenbogen,2005-08   **Intermediate Algebra** Ron Larson,1998   **College Algebra** Chris Vancil,2001-08 Presenting the fundamentals of college Algebra in a clear concise and informative manner Chris Vancil s College Algebra provides student with a solid foundation of the skills and applications that bring success in mathematics and a variety of other disciplines Accompanied by a Student Solutions Manual Instructor s Manual and an Intermediate Algebra Review Supplement this text offers the most comprehensive coverage of college Algebra available in today s market   *Understanding Intermediate Algebra* Lewis Hirsch,Arthur Goodman,1998 Authors Hirsch and Goodman clearly and carefully develop students understanding of intermediate algebra concepts by using a unique spiral approach This approach presents a topic at an elementary level and then returns to it at increasing levels of complexity This gradual introduction builds student confidence while developing concepts rules and definitions To complement this approach the authors include a wealth of numerical and algebraic examples that reflect a wide variety of situations These illustrative examples compare and contrast related ideas helping students understand the sometimes subtle distinctions among various situations   <u>Earth Algebra</u> Christopher Schaaufele,William K. Hartmann,Nancy Zumoff,Marlene Sims,Stan Sims,2003-05-31   **Algebra Review Exercises** ,1930

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