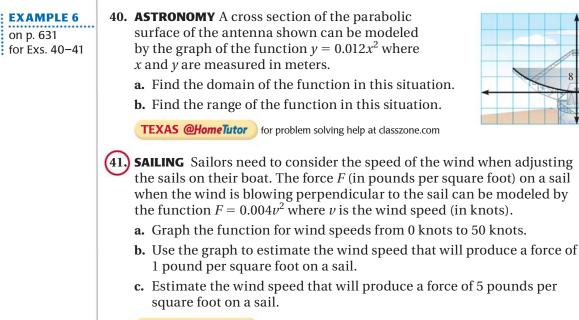
EXAMPLE 4 on p. 630 for Exs. 24–32	GRAPHING QUADRATIC FUNCTIONS Graph the function. Compare the graph with the graph of $y = x^2$.		
	24. $y = 7x^2 + 7$	25. $y = -x^2 + 5$	26. $y = 2x^2 - 12$
	27. $y = -2x^2 - 1$	28. $y = -3x^2 - 2$	29. $y = \frac{3}{4}x^2 - 3$
	30. $y = \frac{1}{5}x^2 + 10$	31. $y = \frac{1}{2}x^2 - 5$	32. $y = -\frac{2}{3}x^2 + 9$
EXAMPLE 5 on p. 631 for Exs. 33–36	33. TAKS REASONING How would the graph of the function $y = x^2 + 3$ be affected if the function were changed to $y = x^2 + 9$?		
	(A) The graph would shift 9 units to the right.		
	(B) The graph would shift 6 units up.		
	C The graph would shift 9 units up.		
	D The graph would shift 6 units down.		
	COMPARING GRAPHS Tell how you can obtain the graph of g from the graph of f using transformations.		
	34. $f(x) = x^2 - 5$	35. $f(x) = 3x^2 - 11$	36. $f(x) = 4x^2$
	$g(x) = x^2 + 8$	$g(x) = 3x^2 - 16$	$g(x) = 2x^2$
	CHALLENGE Write a function of the form $y = ax^2 + c$ whose graph passes through the two given points.		
	37. (-1, 9), (0, 3)	38. (2, 1), (5, -20)	39. (-2, -16.5), (1, 4.5)
(PROBLEM SOLVING			

GRAPHING CALCULATOR You may wish to use a graphing calculator to complete the following Problem Solving exercises.



TEXAS @HomeTutor for problem solving help at classzone.com

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