

8. Write the equation of the graph below.	9. Consider the graphs of $f(x)$ and $g(x) = \frac{1}{2} \cdot f(x)$. What is the transformation, including the scale factor?	
10. The formula for the area of a circle is $A = \pi r^2$. Solve for r.	11. A café's annual income depends on x, the number of customers. The function $I(x) = 4x^2 - 20x$ describes the café's total annual income. The function $C(x) = 2x^2 + 5$ describes the total amount the café spends in a year. The café's annual profit, P(x), is the difference between the annual income and the amount spent in a year. Which function describes $P(x)$?	
12. Factor $x^2 + 16$	13. Factor $4x^2 + 8x$	
14. An object is thrown in the air with an initial velocity of 5 m/s from a height of 9m. The equation $h(t) = -4.9t^2 + 5t + 9$ models the height of the object in meters after t seconds.	15. Factor $x^2 - 11x + 18$.	
	16. Which expression is not a perfect square trinomial?	
	A. $x^2 + 12x + 36$ C. $x^2 + 12x - 36$	
	B. $x^2 - 6x + 9$ D. $x^2 + 6x + 9$	
About how many seconds does it take for the object to hit the ground?	17. Solve $x^2 - 7x + 12 = 0$.	

18. Keith determines the zeros of a function to be 5 and -6 . What could be Keith's function?	19. Solve $2x^2 - 5x + 2 = 0$ for x.		
	A. $x = 0.5$ or $x = 2$	C. x = 2	
		B. x = 0.5	D. $x = -0.5$ or $x = 2$
20. Solve: $2(x + 7)^2 - 4 = 68$ for	х.	21. Solve: $(x - 9)^2 + 4 = 85$ for x.	
22. Solve using any method.		23. Solve using any method.	
$x^2 + 20x + 15 = 0$		$9x^2 + 15 = 20$	
24. Solve using any method. $3x^2 + 20x + 7 = 0$		25. Sovie using any method. $x^2 + 20x + 19 = 0$	
Cropping the following			
26. $y = -2(x - 2)^2 + 3$		27. $f(x) = \frac{1}{2}(x+2)^2 - 4$	
y Vertex: y Vertex: y Axis of Symmetry: -6 -5 -4 -3 -2 -1 0 1 -2 -3 -4 -5 -6 y Domain:	x:		Vertex:
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