

Answers to Algebra 2 L3.1 Pre A – Factoring  $x^2 + bx + c$

3.  $(x + 1)(x + 7)$

4.  $(z + 3)(z + 7)$

5.  $(n + 4)(n + 5)$

6.  $(s + 5)(s + 6)$

7.  $(h + 2)(h + 9)$

8.  $(y + 5)(y + 8)$

9.  $(v - 1)(v - 4)$

10.  $(x - 2)(x - 11)$

11.  $(d - 2)(d - 3)$

12.  $(k - 4)(k - 6)$

13.  $(w - 8)(w - 9)$

14.  $(j - 6)(j - 7)$

15.  $(x - 1)(x + 4)$

16.  $(z - 2)(z + 9)$

17.  $(n - 2)(n + 6)$

18.  $(s - 5)(s + 8)$

19.  $(y - 6)(y + 8)$

20.  $(h - 3)(h + 9)$

21.  $(x + 4)(x - 5)$

22.  $(m + 1)(m - 7)$

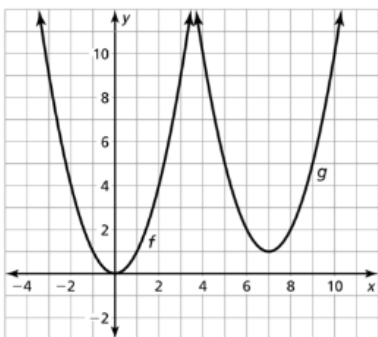
23.  $(t + 2)(t - 8)$

24.  $(y + 3)(y - 10)$

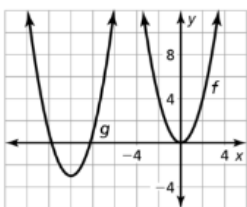
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11. The graph of  $g$  is a translation 7 units right and 1 unit up of the graph of  $f$ .



12. The graph of  $g$  is a translation 10 units left and 3 units down of the graph of  $f$ .



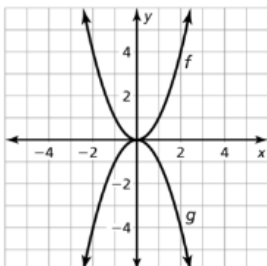
13. A; The graph has been translated 1 unit right.

14. D; The graph has been translated 1 unit up.

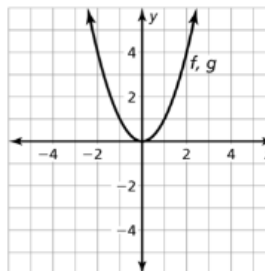
15. C; The graph has been translated 1 unit right and 1 unit up.

16. B; The graph has been translated 1 unit left and 1 unit down.

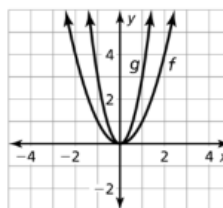
17. The graph of  $g$  is a reflection in the  $x$ -axis of the graph of  $f$ .



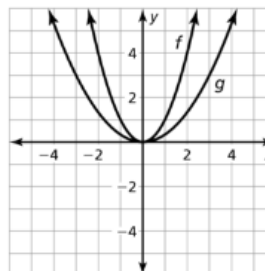
18. The graph of  $g$  is a reflection in the  $y$ -axis of the graph of  $f$ .



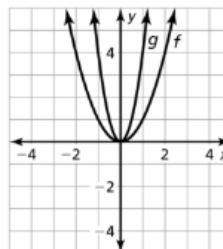
19. The graph of  $g$  is a vertical stretch by a factor of 3 of the graph of  $f$ .



20. The graph of  $g$  is a vertical shrink by a factor of  $\frac{1}{3}$  of the graph of  $f$ .

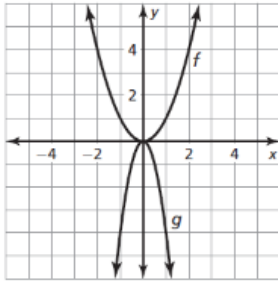


21. The graph of  $g$  is a horizontal shrink by a factor of  $\frac{1}{2}$  of the graph of  $f$ .

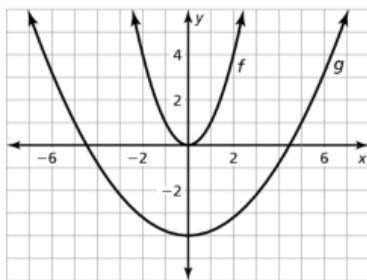


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22. The graph of  $g$  is a horizontal shrink by a factor of  $\frac{1}{2}$  followed by a reflection in the  $x$ -axis of the graph of  $f$ .



23. The graph of  $g$  is a vertical shrink by a factor of  $\frac{1}{5}$  followed by a translation 4 units down.



24. The graph of  $g$  is a vertical shrink by a factor of  $\frac{1}{2}$  followed by a translation 1 unit right.

