

Answers to Algebra 2 L3.1 Pre B – Factoring  $ax^2 + bx + c$

3.  $3(x - 1)(x + 2)$

4.  $8(v - 2)(v + 3)$

5.  $4(k + 3)(k + 4)$

6.  $6(y - 1)(y - 3)$

7.  $7(b - 4)(b - 5)$

8.  $9(r + 1)(r - 5)$

9.  $(3h + 2)(h + 3)$

10.  $(2m + 7)(4m + 1)$

11.  $(2x - 1)(3x - 1)$

12.  $(2w - 5)(5w - 3)$

13.  $(n + 2)(3n - 1)$

14.  $(2z - 1)(2z + 3)$

15.  $2(g - 2)(4g + 3)$

16.  $3(2v - 3)(3v + 2)$

17.  $-(t - 3)(3t - 2)$

18.  $-(v + 3)(7v + 4)$

19.  $-(c - 5)(4c + 1)$

20.  $-(h + 2)(8h - 3)$

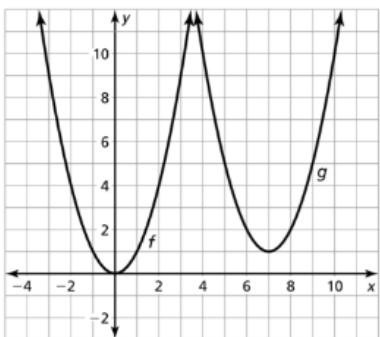
21.  $-(3w - 4)(5w + 7)$

22.  $-(2d - 1)(11d - 9)$

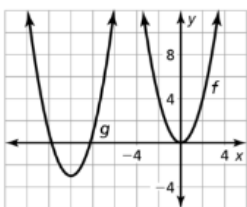
**Answers to Algebra 2 L3.1 Pre B – Factoring  $ax^2 + bx + c$**

Answers to Algebra 2 L3.1 Pre B – Factoring  $ax^2 + bx + c$

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  $f$ .



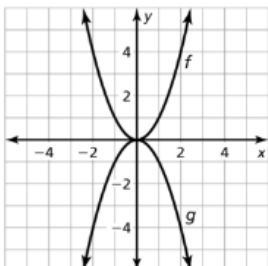
13. A; The graph has been translated 1 unit right.

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

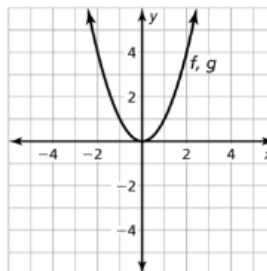
15. C; The graph has been translated 1 unit right and 1 unit up.

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

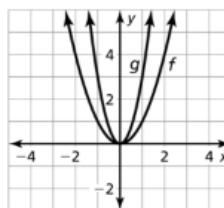
17. The graph of  $g$  is a reflection in the  $x$ -axis of the graph of  $f$ .



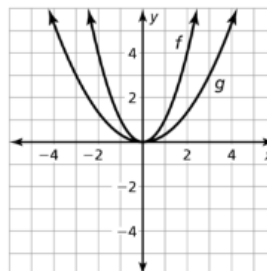
18. The graph of  $g$  is a reflection in the  $y$ -axis of the graph of  $f$ .



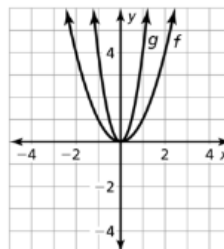
19. The graph of  $g$  is a vertical stretch by a factor of 3 of the graph of  $f$ .



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

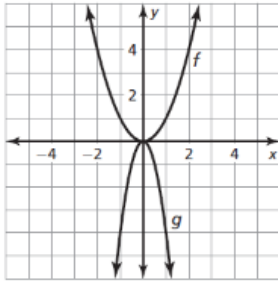


21. The graph of  $g$  is a horizontal shrink by a factor of  $\frac{1}{2}$  of the graph of  $f$ .

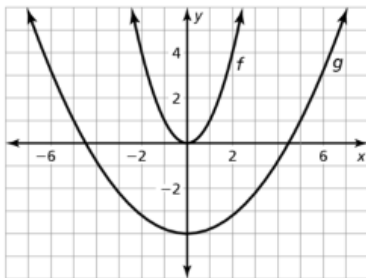


Answers to Algebra 2 L3.1 Pre B – Factoring  $ax^2 + bx + c$

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.

