

Algebra 2 Honors – Answer Key

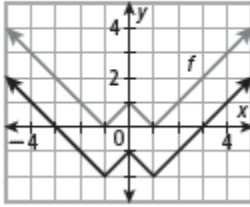
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14. (5, 1)

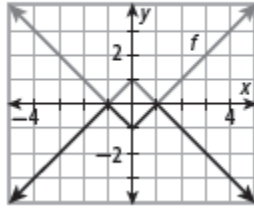
15. (3, 5)

16. (-2, -3)

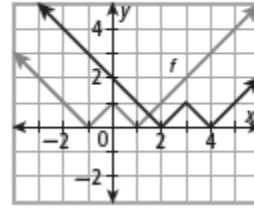
17. Table values will vary.



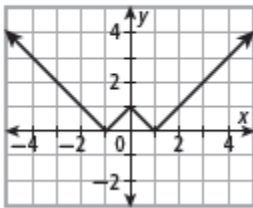
18. Table values will vary.



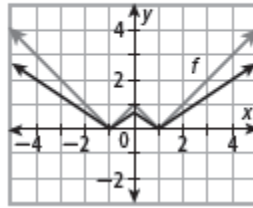
19. Table values will vary.



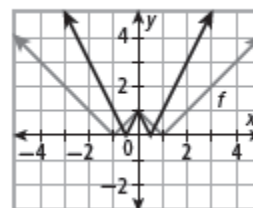
20. Table values will vary.



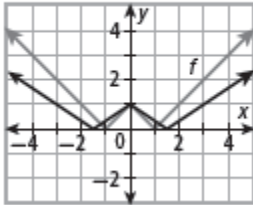
21. Table values will vary.



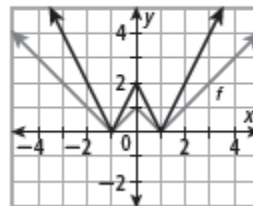
22. Table values will vary.



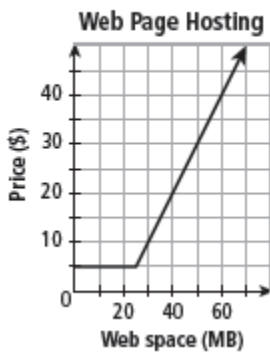
23. Table values will vary.



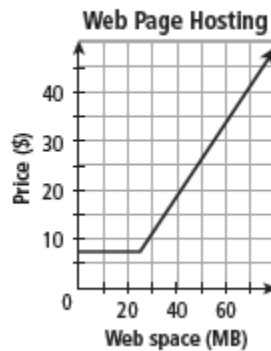
24. Table values will vary.



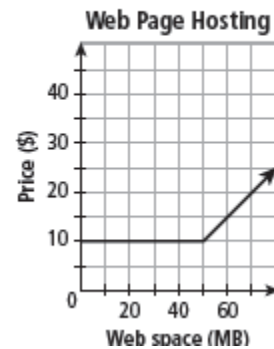
25. vertical shift down 5 units



26. vertical compression by a factor of  $\frac{3}{4}$



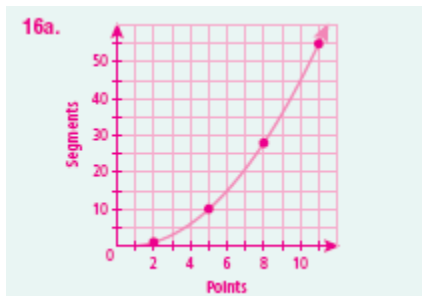
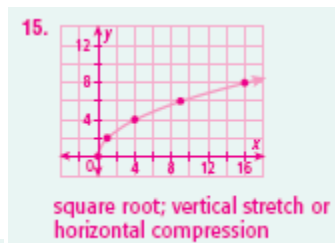
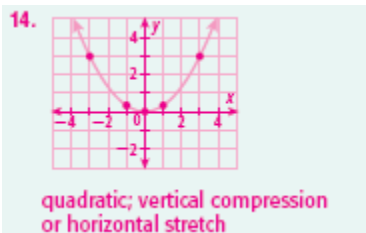
27. horizontal stretch by a factor of 2



- 28. 10 square units; the same as the original
- 29. 10 square units; the same as the original
- 30. 20 square units; larger than the original

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- 11. quadratic; translation 1 unit down
- 12. square root; translation 2 units right
- 13. cubic; translation 3 units up



- 16b. quadratic
- 16c. 10 points
- 16d. 21 segments

- 17.  $D : [0, \infty); R : [0, \infty)$ ; vertical stretch by a factor of 3
- 18.  $D : (-\infty, \infty); R : (-\infty, \infty)$ ; vertical compression by a factor of  $2/3$
- 19.  $D : [0, \infty); R : (-\infty, 0]$ ; reflection in  $x$ -axis
- 20.  $D : (-\infty, \infty); R : (-\infty, 0]$ ; horizontal shift right 2, reflection in the  $x$ -axis
- 21.  $D : (-\infty, \infty); R : (-\infty, 1]$ ; vertical shift up 1, reflection in the  $x$ -axis
- 22.  $D : (-\infty, \infty); R : (-\infty, \infty)$ ; reflection in  $x$ -axis, vertical compression by a factor of  $1/2$