

Slope Fields Worksheet Solutions

7. C

8. D

9. A

10. B

11. B

12. C

13. D

14. A

15. E

16. D

17. (B) Tangent line: $y - 1 = \frac{1}{2}(x - 1)$

$$f(1.2) \approx 1.1$$

$$(C) y = e^{\frac{x^2-1}{4}}$$

$$f(1.2) = 1.116$$

(D) The estimate from part (b) was an underestimate. Since the graph of $y = e^{\frac{x^2-1}{4}}$ is concave up, the tangent line found in part (b) lies below the curve.

$$18. (C) y = \sqrt{x^2 + 1}$$

$$(E) y = -\sqrt{x^2 + 1}$$