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: $y - 1 = \dfrac{1}{2}(x-1)$

$f(1.2) \approx 1.1$

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