

3.  $e^8$

5.  $\frac{1}{2e}$

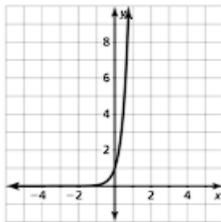
7.  $625e^{26i}$

9.  $3e^{3x}$

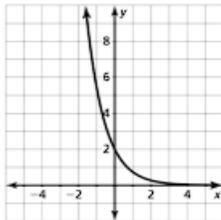
11.  $e^{-5x+8}$

13. The 4 was not squared;  $(4e^{3x})^2 = 4^2e^{3x(2)} = 16e^{6x}$

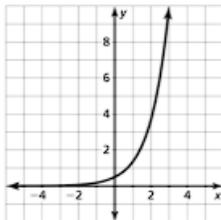
15. exponential growth



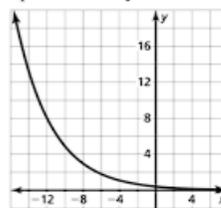
17. exponential decay



19. exponential growth



21. exponential decay



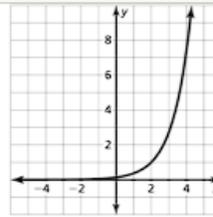
23. D; The graph shows growth and has a y-intercept of 1.

25. B; The graph shows decay and has a y-intercept of 4.

27.  $y = (1 - 0.221)^x$ ; 22.1% decay

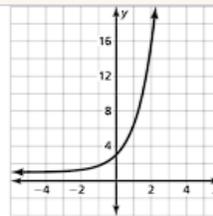
29.  $y = 2(1 + 0.492)^x$ ; 49.2% growth

31.



domain: all real numbers, range:  $y > 0$

33.



domain: all real numbers, range:  $y > 1$