

Answer Key – p. 278 #17 -22, 25, 30 – 36

17. 0

18.  $2a$

19.  $c + 2$

20.  $x^4$

21. \$5553.55

22.  $k \approx 0.000029$ ;  $\approx 17g$ ;  $\approx 100,000$  years

25. a.  $t \approx 2.4$  minutes

b.  $t \approx 2.8$  minutes

c. about 17.4 minutes

30. a.  $k \approx 0.154$

b. about 25.6 million

31.  $x = \frac{e}{5} \approx 0.54$

32.  $x = 5e^{-3} \approx 0.25$

33.  $x = \pm \frac{e^5}{\sqrt{10}} \approx \pm 47$

34.  $x = e$

35.  $x > 0$

36.  $x = 2$