

Pg 155 #27 & 29; Pg 162 -163 #3, 5-7, 10, 11, 14

27. $k = 11$

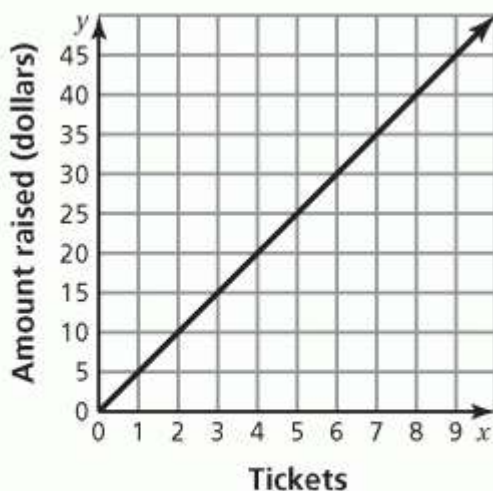
29. $k = -5$

3. no; *Sample answer:* The graph of the equation does not pass through the origin.

5. yes; $y = \frac{1}{3}x$; *Sample answer:*
The rate of change in the table is constant.

6. no; *Sample answer:* The rate of change in the table is not constant.

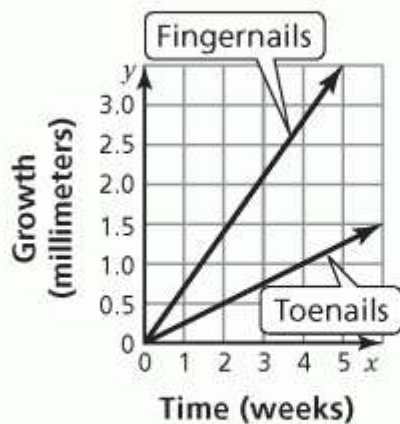
7.



Each ticket costs \$5.

10. a. fingernails; Fingernails grow about 0.7 millimeter per week and toenails grow about 0.25 millimeter per week.

b.



The graph that represents fingernails is steeper than the graph that represents toenails. So, fingernails grow faster than toenails.

11. See *Taking Math Deeper*.

14.

