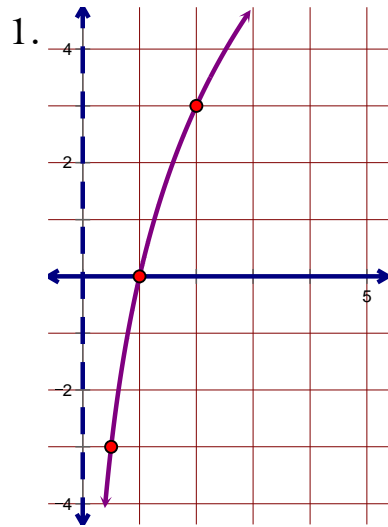


Chapter 5B White Board Problems – Answers

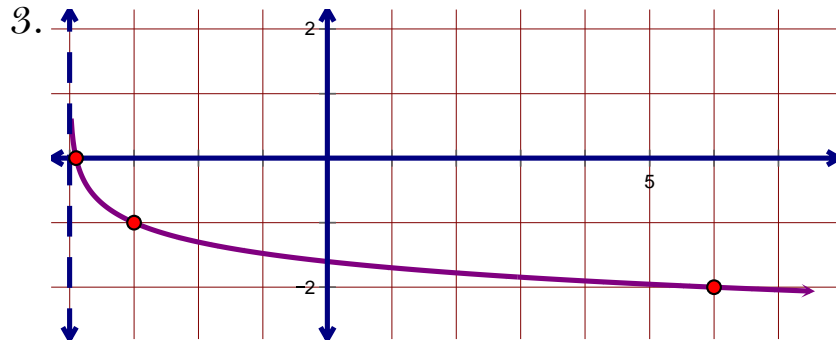
Applications

1. 5 years
2. 14.68 years
3. 16.464 years
4. 1990
5. 6.892 weeks

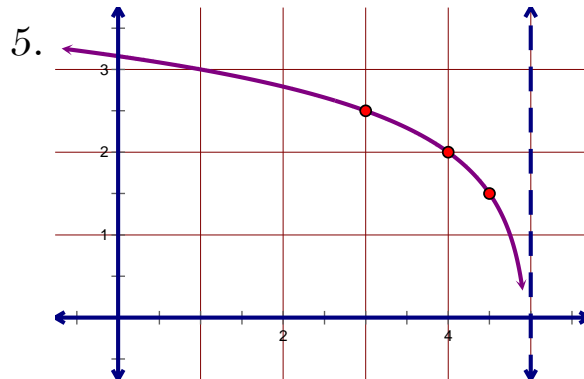
Graphing



2. $b(x) = -\log_3(x-2)$



4. $d(x) = 2\log_4(-x) + 3$



Expand/Single Log

1. $\log \frac{x^2}{y}$
2. $\log_5 8 + 3\log_5 v - \log_5 w$
3. $\log_3(m^{10} \sqrt{d})$
4. $7\log_8 r - 5\log_8 c + \frac{1}{4}\log_8 n - \frac{1}{2}\log_8 h$
5. $\log\left(\frac{b^5}{k^6 a^8}\right)$

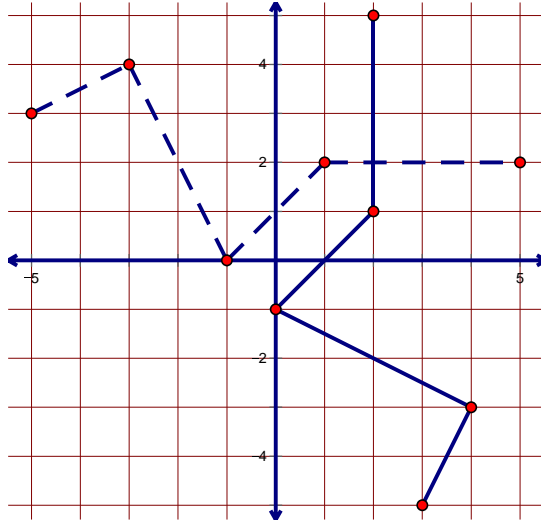
Solve

1. $x=8$ 2. $x=243$ 3. $x=\frac{25}{24}$ 4. $x=1.09$ 5. $x=16$

Inverse

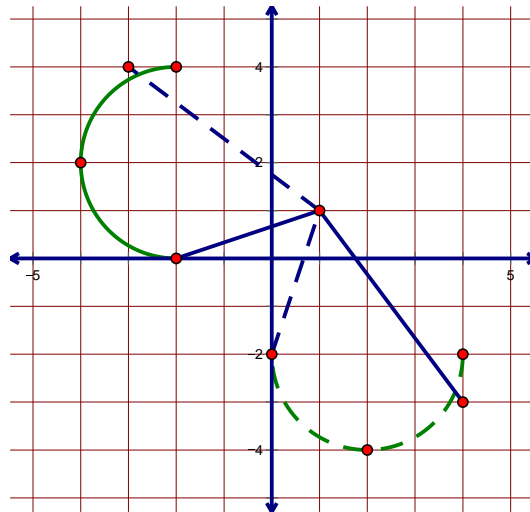
1. $a^{-1}(x) = 5x + 10$

2.



3. $g^{-1}(13) = 3$

4.



5. $h^{-1}(-12) = \frac{5}{2}$