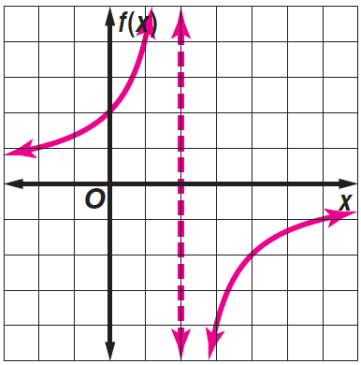
13.1 **Answer Key**

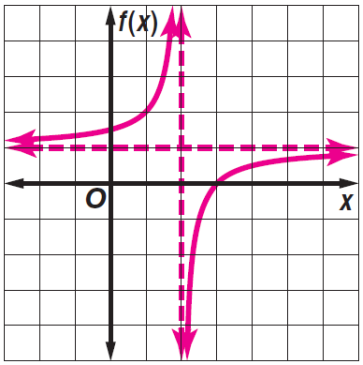
1. V.A.: x = 2, x = -5
   Hole(s): none

2. V.A.: x = 3
   Hole(s): x = 7

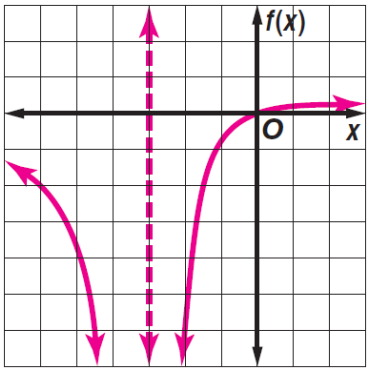
3. V.A.: none
   Hole(s): x = -5

4. 

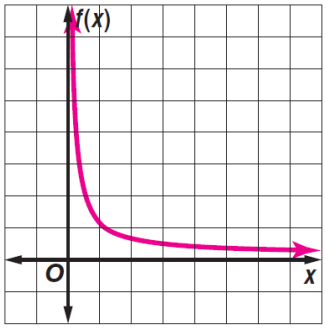
V.A.: x = 2
Hole(s): none

5. 

V.A.: x = 2
Hole(s) : none

6. 

V.A.: x = -3
Hole(s) : none

7. $\frac{5}{12}$ 

13.2 **Answer Key**

State whether each equation represents a *direct*, *joint*, or *inverse* variation. Then name the constant of variation.

1. joint; 8
2. direct; 4
3. inverse; 5
4. inverse; 4.5
5. direct; π
6. joint; $\frac{1}{2}$
7. inverse; 1.25
8. inverse; $\frac{3}{4}$
9. $500\ cm^3$
10. 12 in.
11. $100\ m^2$

13.3 **Answer Key**

1. rational

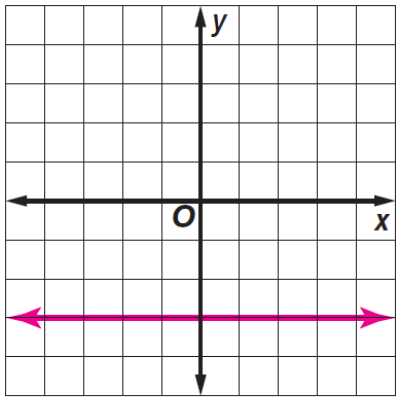
2. square root

3. absolute value

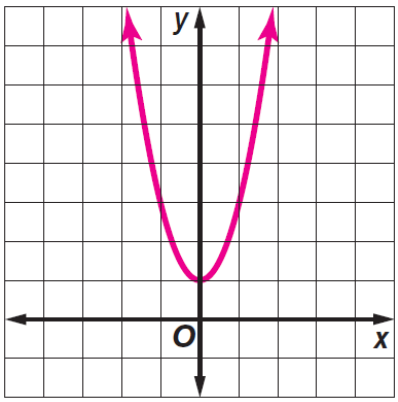
4. D

5. C

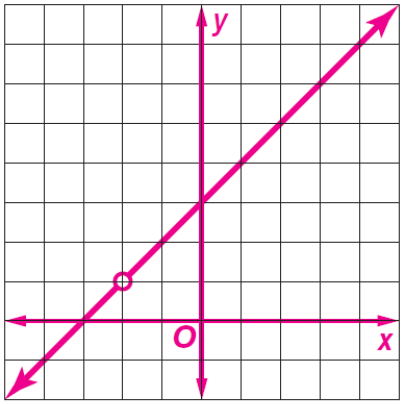
6. A

7. 

constant

8. 

quadratic

9. 

rational

10. The graph looks like a series of steps, similar to a greatest integer function, but with open circles on the left and closed circles on the right; $58.