

## Chapter 9 Review

### Answer Section

#### SHORT ANSWER

1. -5

2. 7, 12

3.  $\frac{37p}{50q^3(r-5)^2}$

4.  $\frac{10(a+2)}{41(a-6)}$

5.  $\frac{(x+1)(x-1)(26x-31)}{(x^2+8)}$

6.  $x(11x-3y)(11x+3y)$

7.  $464a^3b^4c^2$

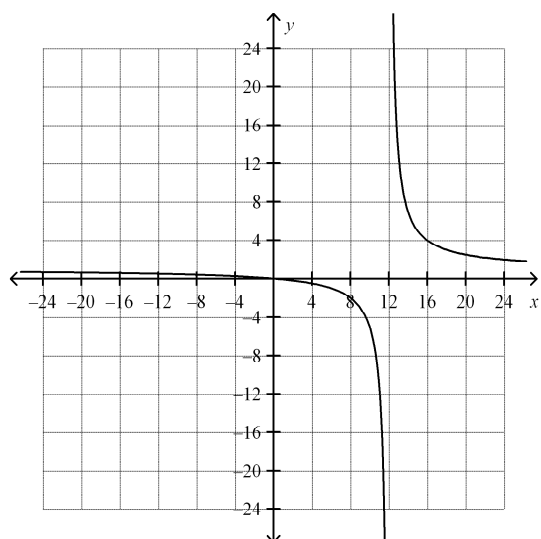
8.  $\frac{4x-7}{(2x+5)(2x-5)}$

9.  $\frac{152x-7y^4}{8x^2y^2}$

10.  $\frac{5y-16}{(y+2)(y-2)}$

11. asymptotes:  $x = 6$ ;  $x = 8$ , no holes12. asymptotes:  $x = 1$ ; hole:  $x = 6$ 

13.



14. 140

15. 146.67

16. -50.44

17. 0.209

18. 66 cubic centimeters

19. 0.24

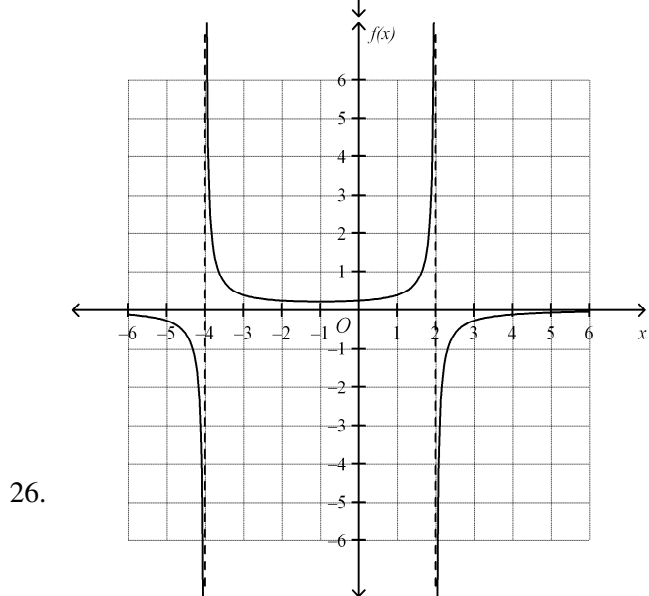
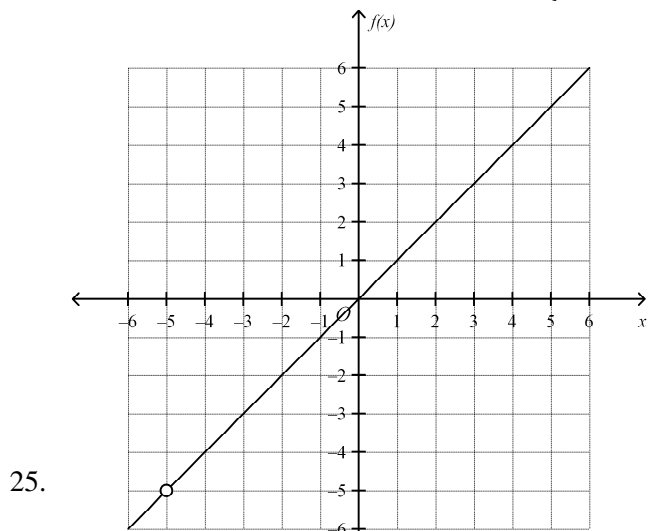
20.  $-1 < b < 0$

21.  $p < 0$  or  $p > 10.5$

22.  $\frac{12}{7}$  h

23. asymptotes are  $x = 0$  and  $f(x) = 0$ ;  $D = \{x \mid x \neq 0\}$ ;  $R = \{f(x) \mid f(x) \neq 0\}$

24. asymptotes are  $x = 0$  and  $f(x) = -3$ ;  $D = \{x \mid x \neq 0\}$ ;  $R = \{f(x) \mid f(x) \neq -3\}$



27. about 5.18 in.

28. about 5.18 lb per in<sup>2</sup>

29. 3.6 h

30. about 306 mph