1. $(-9,-7)$

---

2. (1) independent

   (2) dependent

---

3. (1) $\neq$

   (2) both f and g.

---

4. No

   B. The relation is not a function.

   B. The relation is not a function.

---

5. No

---

6. Yes

---

7. 1

   $2x^2-4x+3$

   $-2x^2-4x-3$

   $2x^2+4hx+2h^2+4x+4h+3$

---

8. $(-\infty,\infty)$

---

9. $(-\infty,-6)\cup(-6,6)\cup(6,\infty)$

---

10. $[8,\infty)$

---

11. $(-4,\infty)$

---

12. $7x + 3$

B. The domain is $\{x \mid x \text{ is any real number}\}$.

$-3x + 15$

B. The domain is $\{x \mid x \text{ is any real number}\}$.

$10x^2 + 33x - 54$

B. The domain is $\{x \mid x \text{ is any real number}\}$.

$\frac{2x + 9}{5x - 6}$

A. The domain is $\left\{x \middle| \boxed{x \neq \frac{6}{5}}\right\}$.

(Use integers or fractions for any numbers in the expression. Use a comma to separate answers as needed.)

24

3

52

-11

---

13. 3

---

14. (1) vertical

---

15. False

---

16. -6

-6

6

-3

Negative

Positive

$-18, -3, 12$

$-18 < x < -3, 12 < x \leq 18$

$-21 \leq x \leq 18$

$-6 \leq y \leq 9$

$-18, -3, 12$

-3

3

1

$-21, 6$

-9

---

17. Yes

A. The domain is $[-\pi,\pi]$. The range is $[-1,1]$.(Type your answers in interval notation.)

A. The intercepts are $(\pi,0),(-\pi,0),(0,0)$.
(Type an ordered pair. Type an exact answer using π as needed. Use a comma to separate answers as needed.)

C. It is symmetrical with respect to the origin.

---

18. No

$-\frac{4}{7}$

$\left(2,-\frac{4}{7}\right)$

20

(20, 2)

$(-\infty, 9) \cup (9, \infty)$

A. The x-intercept(s) is/are -2.(Type an integer or a simplified fraction. Use a comma to separate answers as needed.)

A. The y-intercept(s) is/are $-\frac{2}{9}$.(Type an integer or a simplified fraction. Use a comma to separate answers as needed.)

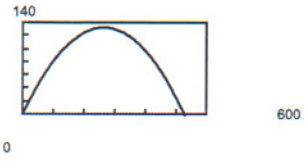
---

19. 81.1

124.3

97

528.1



C.

A. The ball has traveled 115.1, 413.1 feet.(Use a comma to separate answers as needed. Round to one decimal place.)

275

132

264
