

Semester 1 Exam Practice - Part 2

Date_____ Period_____

Name the set or sets to which each number belongs.

1) -3

2) $\sqrt[3]{94}$

3) 0

4) $\sqrt{20}$

5) -7

6) 9

Evaluate each expression.

7) $((-1) - 9)(10) - (-1)$

8) $((-4) + 2)((-10)(-1))$

9) $(-2) + 7 + 5 - (-8)$

10) $3 + (-5) - 7 - 2$

11) $(6)\left(\frac{27}{(-2)-1}\right)$

12) $|(-6)| + |5|$

Definitions:

13) Define a function. What is function notation? Define a monomial. Define a polynomial. What is the degree of a monomial? What is the degree of a polynomial?

Simplify. Your answer should contain only positive exponents.

14) $\frac{(m^3)^4}{-m^{-3} \cdot m^3 n^0}$

15) $\frac{(a^5 b^3)^5 \cdot -a^0 b^{-2}}{a^{-5}}$

Write the slope-intercept form of the equation of the line through the given points.

16) through: $(0, -4)$ and $(2, -4)$

17) through: $(0, 4)$ and $(-5, -1)$

Answers to Semester 1 Exam Practice - Part 2

1) Z, Q, R

5) Z, Q, R

9) 18

13) A

17) $y = x + 4$

2) I, R

6) N, W, Z, Q, R

10) -11

14) $-m^{12}$

3) W, Z, Q, R

7) -99

11) 54

15) $-a^{30}b^{13}$

4) I, R

8) -20

12) 11

16) $y = -4$