

A.APR.D.6: Undefined Rationals 1

- 1 Which value of x makes the expression $\frac{x+4}{x-3}$ undefined?
1) -4 2) -3 3) 3 4) 0
- 2 The expression $\frac{x-3}{x+2}$ is undefined when the value of x is
1) -2 , only 2) -2 and 3 3) 3 , only 4) -3 and 2
- 3 What value of x would make the expression $\frac{x}{2x+1}$ undefined?
1) 0 2) $-\frac{1}{2}$ 3) -1 4) $\frac{1}{2}$
- 4 Which value of n makes the expression $\frac{5n}{2n-1}$ undefined?
1) 1 2) 0 3) $-\frac{1}{2}$ 4) $\frac{1}{2}$
- 5 For which value of x is the expression $\frac{x+2}{2x-1}$ undefined?
1) 0 2) -2 3) $-\frac{1}{2}$ 4) $\frac{1}{2}$
- 6 Which value of x makes the expression $\frac{x+9}{3x-6}$ undefined?
1) -9 2) 2 3) -3 4) 0
- 7 The expression $\frac{2x^2+10x-28}{4x+28}$ is undefined when x is
1) 7 , only 2) -7 , only 3) 7 or -2 4) -7 or 2
- 8 For which value of x is $\frac{x-3}{x^2-4}$ undefined?
1) -2 2) 0 3) 3 4) 4
- 9 The expression $\frac{14+x}{x^2-4}$ is undefined when x is
1) -14 , only 2) 2 , only 3) -2 or 2 4) -14 , -2 , or 2
- 10 The function $y = \frac{x}{x^2-9}$ is undefined when the value of x is
1) 0 or 3 2) 3 or -3 3) 3 , only 4) -3 , only
- 11 The algebraic expression $\frac{x-2}{x^2-9}$ is undefined when x is
1) 0 2) 2 3) 3 4) 9
- 12 The expression $\frac{x-7}{9-x^2}$ is undefined when x is
1) 3 and 7 2) 3 and -3 3) 3 , only 4) 9
- 13 The function $f(x) = \frac{x-3}{x^2+2x-8}$ is undefined when x equals
1) 2 or -4 2) 4 or -2 3) 3 , only 4) 2 , only
- 14 Which value of x makes the expression $\frac{x^2-9}{x^2+7x+10}$ undefined?
1) -5 2) 2 3) 3 4) -3
- 15 For which set of values of x is the algebraic expression $\frac{x^2-16}{x^2-4x-12}$ undefined?
1) $\{-6,2\}$ 2) $\{-4,3\}$ 3) $\{-4,4\}$ 4) $\{-2,6\}$
- 16 For which values of x is the fraction $\frac{x^2+x-6}{x^2+5x-6}$ undefined?
1) 1 and -6 2) 2 and -3 3) 3 and -2 4) 6 and -1
- 17 A value of x that makes the expression $\frac{x^2+4x-12}{x^2-2x-15}$ undefined is
1) -6 2) -2 3) 3 4) 5

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Answer Section

1 ANS: 3 REF: 060817ia

2 ANS: 1 REF: 061315ia

3 ANS: 2 REF: 061626ia

4 ANS: 4 REF: 060916ia

5 ANS: 4 REF: 011521ia

6 ANS: 2 REF: 061520ia

7 ANS: 2
 $4x + 28 = 0$

$$4x = -28$$

$$x = -7$$

REF: 081417ia

8 ANS: 1 REF: fall0728ia

9 ANS: 3

$$x^2 - 4 = 0$$

$$(x + 2)(x - 2) = 0$$

$$x = \pm 2$$

REF: 081225ia

10 ANS: 2 REF: 010925ia

11 ANS: 3

$$x^2 - 9 = 0$$

$$(x + 3)(x - 3) = 0$$

$$x = \pm 3$$

REF: 061014ia

12 ANS: 2 REF: 061429ia

13 ANS: 1

$$x^2 + 2x - 8 = 0$$

$$(x + 4)(x - 2) = 0$$

$$x = -4, 2$$

REF: 081701aii

14 ANS: 1

$$x^2 + 7x + 10 = 0$$

$$(x + 5)(x + 2) = 0$$

$$x = -5 \text{ or } -2$$

REF: 080918ia

15 ANS: 4

$$x^2 - 4x - 12 = 0$$

$$(x - 6)(x + 2) = 0$$

$$x = 6 \quad x = -2$$

REF: 061125ia

16 ANS: 1

$$x^2 + 5x - 6 = 0$$

$$(x + 6)(x - 1) = 0$$

$$x = -6, 1$$

REF: 011214ia

17 ANS: 4

$$x^2 - 2x - 15 = 0$$

$$(x + 3)(x - 5) = 0$$

$$x = -3, 5$$

REF: 081316ia