

**A.APR.D.6: Undefined Rationals 2**

1 For which value of  $x$  is the expression  $\frac{3x-6}{x-4}$  undefined?

- 1) 0 2) 2 3) -4 4) 4

2 For which value of  $x$  is the expression  $\frac{x-7}{x+2}$  undefined?

- 1) -2 2) 2 3) 7 4) 0

3 For which value of  $x$  is the expression  $\frac{3}{x-2}$  undefined?

- 1) -2 2) 2 3) 3 4) 0

4 For which value of  $x$  is the expression  $\frac{6-x}{x+2}$  undefined?

- 1) -2 2) 2 3) 0 4) 6

5 For which value of  $x$  is the expression  $\frac{3x-3}{x-5}$  undefined?

- 1) 1 2) -1 3) 5 4) -5

6 For which value of  $m$  is the expression  $\frac{15m^2n}{3-m}$  undefined?

- 1) 1 2) 0 3) 3 4) -3

7 For which value of  $x$  will the fraction  $\frac{3}{2x+4}$  be undefined?

- 1) -2 2) 2 3) 0 4) -4

8 For which value or values of  $n$  is the expression  $\frac{n-1}{2n+4}$  undefined?

- 1) 1, only 2) -2, only 3) 1 and -2 4) 0

9 For which value of  $x$  is  $f(x) = \frac{x^2-2x+1}{3x-1}$  undefined?

10 For which value of  $x$  is  $\frac{1}{27-3^x}$  undefined?

- 1) 1 2) 0 3) 3 4) -3

11 Which expression is undefined when  $w = 3$ ?

- 1)  $\frac{w-3}{w+1}$  2)  $\frac{w^2+2w}{5w}$  3)  $\frac{w+1}{w^2-3w}$  4)  $\frac{3w}{3w^2}$

12 For what values of  $x$  is the fraction  $\frac{4-x}{x^2-4}$  undefined?

13 For which *negative* values of  $x$  is the fraction  $\frac{x+5}{x^2-x-6}$  undefined?

14 For which ordered pair,  $(x,y)$ , is the fraction  $\frac{3}{y-x}$  undefined?

- 1) (-1,1) 2) (-3,-2) 3) (2,3) 4) (4,4)

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**Answer Section**

- 1 ANS: 4 REF: 060319a  
2 ANS: 1 REF: 080422a  
3 ANS: 2 REF: 080610a  
4 ANS: 1 REF: 010822a  
5 ANS: 3 REF: 080821a  
6 ANS: 3 REF: 010917a  
7 ANS: 1 REF: 010607a  
8 ANS: 2 REF: 060217siii  
9 ANS:  
 $\frac{1}{3}$   
REF: 069112siii  
10 ANS: 3 REF: 060801b  
11 ANS: 3 REF: 010716a  
12 ANS:  
-2, 2  
REF: 060308siii  
13 ANS:  
-2  
REF: 089906siii  
14 ANS: 4 REF: 019117siii