

A.A.15: Undefined Rationals 4: Find values of a variable for which an algebraic fraction is undefined

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

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

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

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

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

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

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

10 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) $\frac{3w}{3w^2}$

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

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

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

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

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Answer Section

1 ANS:
4

REF: 060319a

2 ANS:
-2

REF: 080422a

3 ANS:
2

REF: 080610a

4 ANS:
-2

REF: 010822a

5 ANS:
5

REF: 080821a

6 ANS:
3

REF: 010917a

7 ANS:
-2

REF: 010607a

8 ANS:
-2, only

REF: 060217siii

9 ANS:
3

REF: 060801b

10 ANS: 3 REF: 010716a

11 ANS:
-2, 2

REF: 060308siii

12 ANS:
-2

REF: 089906siii