

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

1. 080422a, P.I. A.A.15

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

[A] 2 [B] 0 [C] 7 [D] -2

2. 010822a, P.I. A.A.15

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

[A] 2 [B] 0 [C] -2 [D] 6

3. 060319a, P.I. A.A.15

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

[A] -4 [B] 2 [C] 0 [D] 4

4. 080610a, P.I. A.A.15

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

[A] -2 [B] 2 [C] 3 [D] 0

5. 060817ia, P.I. A.A.15

Which value of x makes the expression $\frac{x+4}{x-3}$ undefined?

[A] 0 [B] -3 [C] 3 [D] -4

6. 080821a, P.I. A.A.15

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

[A] 1 [B] -5 [C] -1 [D] 5

7. 010607a, P.I. A.A.15

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

[A] 0 [B] -2 [C] 2 [D] -4

8. 060916ia, P.I. A.A.15

Which value of n makes the expression

$\frac{5n}{2n-1}$ undefined?

[A] $-\frac{1}{2}$ [B] 0 [C] $\frac{1}{2}$ [D] 1

9. 010971a, P.I. A.A.15

For which value of m is the expression

$\frac{15m^2n}{3-m}$ undefined?

[A] 1 [B] 3 [C] -3 [D] 0

10. 010925ia, P.I. A.A.15

The function $y = \frac{x}{x^2-9}$ is undefined when the value of x is

[A] -3, only [B] 0 or 3
[C] 3 or -3 [D] 3, only

11. fall0728ia, P.I. A.A.15

For which value of x is $\frac{x-3}{x^2-4}$ undefined?

[A] -2 [B] 0 [C] 3 [D] 4

12. 010716a, P.I. A.A.15

Which expression is undefined when $w = 3$?

[A] $\frac{w-3}{w+1}$ [B] $\frac{w^2+2w}{5w}$
[C] $\frac{w+1}{w^2-3w}$ [D] $\frac{3w}{3w^2}$

13. 060801b, P.I. A.A.15

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

[A] -3 [B] 3 [C] 0 [D] 1

14. 080918ia, P.I. A.A.15

Which value of x makes the expression

$\frac{x^2-9}{x^2+7x+10}$ undefined?

[A] 3 [B] 2 [C] -3 [D] -5

- [1] D
- [2] C
- [3] D
- [4] B
- [5] C
- [6] D
- [7] B
- [8] C
- [9] B
- [10] C
- [11] A
- [12] C
- [13] B
- [14] D