Integrated Algebra - August '09

18 Which value of x makes the expression $\frac{x^2-9}{x^2+7x+10}$ undefined?

(1) –5
(2) 2
(3) 3
(4) –3

21 The solution to the equation $x^2 - 6x = 0$ is

(1) 0, only
(2) 6, only
(3) 0 and 6
(4) $\pm\sqrt{6}$

Integrated Algebra - June '09

2 What are the roots of the equation $x^2 - 7x + 6 = 0$?

(1) 1 and 7
(2) –1 and 7
(3) –1 and –6
(4) 1 and 6

18 What are the vertex and axis of symmetry of the parabola $y = x^2 - 16x + 63$?

(1) vertex: (8,–1); axis of symmetry: $x = 8$
(2) vertex: (8,1); axis of symmetry: $x = 8$
(3) vertex: (–8,–1); axis of symmetry: $x = –8$
(4) vertex: (–8,1); axis of symmetry: $x = –8$

16 Which value of n makes the expression $\frac{5n}{2n-1}$ undefined?

(1) 1
(2) 0
(3) $-\frac{1}{2}$
(4) $\frac{1}{2}$

Integrated Algebra - January '09

14 What are the roots of the equation $x^2 - 10x + 21 = 0$?

(1) 1 and 21
(2) –5 and –5
(3) 3 and 7
(4) –3 and –7

25 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

Integrated Algebra - June '08

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

(1) –4
(2) –3
(3) 3
(4) 0

Integrated Algebra Sampler - Fall '07

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

(1) –2
(2) 0
(3) 3
(4) 4