1. For what value of x is the equation $\frac{2}{3}x + 15 = 27$ true?

A. -18

B. -12

C. 8

D. 12

E. 18

2. What value of a satisfies the equation $-4(2a - 1) = 6(3 - a)$?

F. -11

G. $-\dfrac{19}{2}$

H. $-\dfrac{22}{3}$

J. -7

K. $-\dfrac{14}{3}$

3. What value of x satisfies the equation $5^{2x+1} = 625$?

A. 1

B. 1.5

C. 2

D. 6

E. There is no real value of x which satisfies this equation.

4. What is the solution set of the equation $6x^2 - 13x + 5 = 0$?

F. $\left\{-\frac{5}{3}, -\frac{1}{2}\right\}$

G. $\left\{-2, -\frac{3}{5}\right\}$

H. $\left\{0, \frac{1}{2}\right\}$

J. $\left\{\frac{1}{2}, \frac{5}{3}\right\}$

K. $\left\{\frac{3}{5}, 2\right\}$

5. What value of a satisfies the equation $\log_4 a = \frac{5}{2}$?

A. 2

B. $2\sqrt{2}$

C. 10

D. 32

E. 80

6. What value of x satisfies the equation $\frac{4x+1}{x} = 12$?

F. 0.125

G. 2.75

H. 4.25

J. 7

K. 16

7. What positive value of x is a solution to the equation $4\sqrt{x + 6} = x + 9$?

A. 1

B. 3

C. 5

D. 6

E. 12

	1	2	3	4	5	6	7
Answer Key	E	J	B	J	D	F	B