

ACT-like Math Questions**Topic: Solving Linear Equations****Easy:**

1.) If $3x - 7 = 4x - 2$, then what is x ?

A. -5

B. $-\frac{1}{5}$

C. $\frac{9}{7}$

D. $\frac{7}{9}$

E. 5

2.) If $x = |9(-2) + 4|$, what is x ?

F. -14

G. -9

H. 9

J. 14

K. 22

3.) If $3x = -2(x + 1) + 6$, then $x = ?$

A. $\frac{4}{5}$

B. $1\frac{2}{5}$

C. $1\frac{3}{5}$

D. 4

E. 8

Medium:

4.) If $3a + 2 = -4$ and $5b - 1 = 9$, what is $a + b$?

F. -2

G. $-\frac{14}{15}$

H. 0

J. 2

K. 4

5.) Solve the following equation for a :

$$\frac{a}{5} + \frac{4}{3} = \frac{2}{15}$$

A. -6

B. $-\frac{4}{3}$

C. $\frac{4}{3}$

D. 3

E. 5

6.) If $|5x - 2| = 7$, which of the following could be a value of x ?

F. -5

G. -1

H. $-\frac{9}{5}$

J. $\frac{5}{9}$

K. 1

Difficult:

7.) What value of k will cause the following equation to have no solution?

$$6x - 3 = k(2x - 5) + 4$$

A. -3

B. 0

C. 1

D. 2

E. 3

Answers:

1.) A

2.) J

3.) A

4.) H

5.) A

6.) G

7.) E