# **GRE Algebra Practice Paper 6**

# Question 1

$$rac{x+2}{3}=rac{x}{3}$$
 Solve for  $x$  .

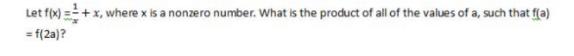
Possible Answers:



### Question 2

If 5 + x is 5 more than 5, what is the value of 2x?

Possible Answers:



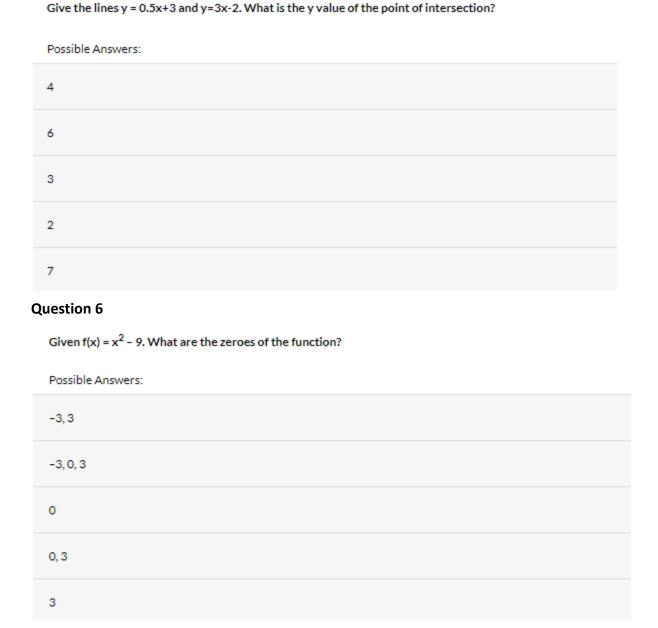


### **Question 4**

If a%b = (2b + 3a)/(6ab), what would have a greater value, 2%3 or 3%2?

Possible Answers:

2%3
3%2
Cannot be determined
They are the same



```
If y = 4 and 6y = 10z + y, then z = ?
```

2	
24	
4	
6	
30	

### **Question 8**

```
\sqrt{(8y)} + 18 = 4
```

What is y?

Possible Answers:

```
24.5
-24.5
14
-2
2
```

```
√(3x) = 9

What is x?

Possible Answers:

3

-27

-3

27
```

### Question 10

 $\sqrt{(x^2-7)}=3$ 

What is x?

Possible Answers:

```
4
-9
9/7
3/7
3
```

### Question 11

If bx + c = e - ax, then what is x?

Possible Answers:

```
(e+c) / (b+a)
(b-a) / (e+c)
(b+a) / (e-c)
(e-c) / (b+a)
(e-c) / (b-a)
```

If  $2x^2(5-x)(3x+2) = 0$ , then what is the sum of all of the possible values of x?

#### Possible Answers:

17/3			
-13/3			
13/3			
5			
-2/3			

### Question 13

 $Let\ x\ be\ a\ number.\ Increasing\ x\ by\ twenty\ percent\ yields\ that\ same\ result\ as\ decreasing\ the\ product\ of\ four\ and\ x\ by\ five.\ What\ is\ x?$ 

#### Possible Answers:

50/7			
25/14			
25/19			
100/19			
25/7			

### **Question 14**

If 3 - 3x < 20, which of the following could not be a value of x?

#### Possible Answers:

-4			
-3			
-6			
-2			
-5			

```
If 4x + 5 = 13x + 4 - x - 9, then x = ?
```

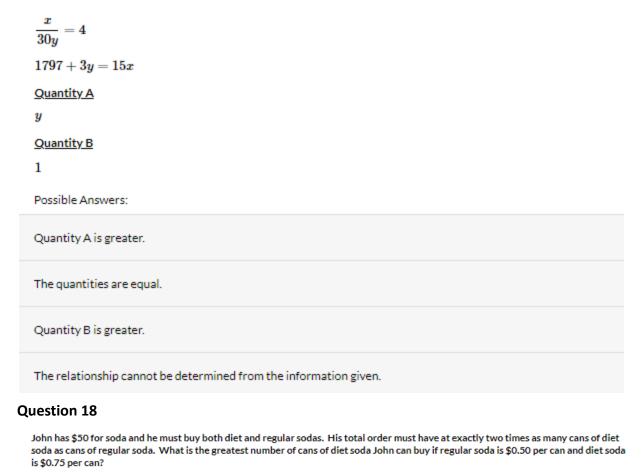
-5/4	
5/8	
0	
8	
5/4	

### Question 16

If 6x = 42 and xk = 2, what is the value of k?

#### Possible Answers:

1/6	
5	
7	
2/7	
1/7	



25

50

75

None of the other answers

51

If 8s-6k=4s-2k, then, in terms of s,k=?

Possible Answers:

5s

s

2s

Cannot be determined

3s

### **Question 20**

If 5(3x+y)=15, what is x in terms of y?

Possible Answers:

$$x = 3 - 3y$$

$$x=\frac{15+5y}{3}$$

$$x=1-\frac{y}{3}$$

$$x=10+rac{y}{3}$$

$$x = \frac{10 - y}{2}$$