POSITIVE NEGATIVE NUMBERS

1)

Given the statements:

$$a^3.b < 0$$

$$b^{2}.c > 0$$

Which of the following is always true?

- A) a.b > 0
- B) a.c > 0
- C) b > 0

- D) b.c < 0 E) a^2 .c > 0

2)

Given that

$$a.b^{2} > 0$$

$$b^{5}.c > 0$$

$$a^{3}.c < 0$$

What are the signs of a, b, and c, respectively?

- A) +,+,- B) +,-,+ C) +,-,- D) -,+,- E) +,+,+

3)

Given that,

which of the following is definitely positive?

- A) $(a b) \cdot (b c)$
- B) (a + b).(b + c)
- C) (a + c)(a c)
- D) (a-c).c

E)
$$(a + c).b$$

4)

Given that,

$$a + b > 0$$

$$b-c<0$$

which of the following is definitely true for a, b, and c?

- A) If a is a positive number, then b is negative.
- B) If a is a negative number, then c is positive.
- C) Both a and b are definitely positive numbers.
- D) c is definitely a positive number.
- E) If b is a negative number, then c is positive.

5)

Given that,

Which of the following is definitely negative?

- A) $\frac{a+b}{b-c}$ B) $\frac{a+c}{a-c}$ C) $\frac{a+b}{c}$ D) $\frac{a-b}{b+c}$ E) $\frac{b-c}{a}$

ANSWER KEY

1	E
2	С
3	Α
4	В
5	D