Exercise 84

Signs of Numbers Let a, b, and c be real numbers such that a > 0, b < 0, and c < 0. Find the sign of each expression.

- (a) -b (b) a + bc (c) c a
- (d) ab^2

Solution

Since b is negative, -b is positive.

Since a is positive and b and c are negative, a + bc is positive.

Since c is negative and a is positive, c - a is negative.

Since a is positive and b^2 is positive, ab^2 is positive.