## 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)** $ab^2$

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**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.