

Applied Algebra

Instructions Please write your name in the upper right-hand corner of the page. Use complete sentences, along with any necessary supporting calculations, to answer the following questions.

1. Find a positive, two-digit integer n such that both $\gcd(n, 45) = 9$ and $\gcd(n, 16) = 4$.

2. Find integers s and t such that $6s + 160t = 2$.