

Sample Quiz

February 14, 2018 8:51 AM

1. Simplify.

a) $x^{10} \cdot x^7$

b) $x^{10} \div x^7$

c) $(x^{10})^7$

d) $(3m^2n^3)(-5m^4)^2$

a) x^{17} ✓

b) x^3 ✓

c) x^{70} ✓

2. Simplify first, then evaluate.

$\frac{10x^2y^{50}}{5x^1y^{46}}$, $x = 9$, $y = -1$

$= 2x^{2-1}y^{50-46}$

$= 2xy^4$ ✓✓✓

$= 2(9)(-1)^4$ ✓

$= 2(9)(1)$

$= 18$ ✓

$3m^2n^3(-5)^2(m^4)^2$ ✓
 $= 3m^2n^3(25)m^8$ ✓
 $= 75m^{10}n^3$ ✓✓