Solutions to Quiz 3 Part II (See below)

QUIZ 3 MATH 65 AU13 THE FIRST 9 PROBLEMS ARE IN-CLASS, THE REST ARE TAKE HOME.
1. SEC. 1.7 Multiply. (-3)*(-24)*(-10)*(-1)*(-1)*(-1)*(-1)*(-1)*(1)
2. SEC. 1.7 Divide: -63,000/9
3. Sec. 1.7. Divide. 7290/(-9)
4. Sec. 1.7. Multiply the three fractions: (-7/4)*(-3/5)*(1/2)
5. Sec. 1.7. What is the reciprocal of 84 ? Check your answer.
6. Sec. 1.7. What is the reciprocal of 2/3 ? Check your answer.
7. Sec. 1.7. Subtract: (4/7) - (-2/7)
8. SEC. 1.8 Simplify. 3 - 62 + 2*17
9. SEC. 1.8 Simplify $3^2 + 4^2 - 15 \div 5$
Below is take home due Wed 9-11-13
10. Sec. 1.8. Simplify: $[3^2 + 4^2 \div 2*(-2)^2] \div [3^2 + 4^2 - 15 \div 5]$
11. Sec. 2.1. Solve for x. $-6 + x = -21$
12. Sec. 2.1. Solve for y. $-y/3 = 2/7$.

10. $\dfrac{[3^2+4^2\div 2\cdot(-2)^2]}{[3^2+4^2-15\div 5]} = \dfrac{[3^2+4^2\div 2\cdot 4]}{[9+16-15\div 5]}$

$= \dfrac{[9+16\div 2\cdot 4]}{[9+16-3]} = \dfrac{[9+8\cdot 4]}{[25-3]} = \dfrac{[9+32]}{22}$

$= \dfrac{41}{22}$

Use of O*
1. ( )
2. Exponents: b^n
3. · OR ÷ (÷ OR ·)
4. + OR − (− OR +)
* order of operations

11. $-6+x = -21$

$+6 \qquad +6$ ← ADD +6 TO BOTH SIDES.

$x = -15$

12. $-\dfrac{y}{3} = \dfrac{2}{7}$

$\dfrac{y}{3} = -\dfrac{2}{7}$ (MOVE −)

CLEAR FRACTIONS ⇒ $3\cdot\left(\dfrac{y}{3}\right) = 3\cdot\left(-\dfrac{2}{7}\right) \Rightarrow y = -\dfrac{6}{7}$