**Question #235**
**Answer: B**

$$ {}_1AS = \frac{\left(G - 0.1G - (1.50)(1)\right)(1.06) - 1000q_{40}^{(d)} - 2.93 \times q_{40}^{(w)}}{1 - q_{40}^{(d)} - q_{40}^{(w)}} $$

$$ = \frac{(0.9G - 1.50)(1.06) - (1000)(0.00278) - (2.93)(0.2)}{1 - 0.00278 - 0.2} $$

$$ = \frac{0.954G - 1.59 - 2.78 - 0.59}{0.79722} $$

$$ = 1.197G - 6.22 $$

$$ {}_2AS = \frac{\left({}_1AS + G - 0.1G - (1.50)(1)\right)(1.06) - 1000q_{41}^{(d)} - {}_2CV \times q_{41}^{(w)}}{1 - q_{41}^{(d)} - q_{41}^{(w)}} $$

$$ = \frac{(1.197G - 6.22 + G - 0.1G - 1.50)(1.06) - (1000)(0.00298) - {}_2CV \times 0}{1 - 0.00298 - 0} $$

$$ = \frac{(2.097G - 7.72)(1.06) - 2.98}{0.99702} $$

$$ = 2.229G - 11.20 $$

$$ 2.229G - 11.20 = 24 $$

$$ G = 15.8 $$