MATH 1500: Quiz 7.3-7.5

Solve.

1. $66 - m = 42$

2. $7 = \frac{x+6}{2}$

3. $7 + 9(2w + 3) = 25$

4. $2(2x - 5) = 6x - (5 - x)$

5-6. The compression ratio R of a cylinder in a diesel engine is given by: $R = \frac{S+C}{C}$ where S is the swept volume of the cylinder and C is the clearance volume of the cylinder.

5. Solve for S.

6. Find the swept volume if the clearance volume is 6.46 in³, and the compression ratio is 17.4 to 1. Round to the tenths.