SOL A.4 Worksheet

Show work. Circle or box answer.

1.) Solve:
$$3 = 6x - 51$$

2.) Solve:
$$-15c + 7c + 1 = 3 - 8c$$

3.) Solve:
$$5(9 + 6f) = -135$$

4.) Solve:
$$7(r+7) = 7r + 59$$

5.) Solve:
$$6g - 1 = -1 + 2(3g)$$

6.)
$$6.2h + 5 - 1.4h = 4.8h + 5$$

7.) Solve:
$$-4(-1-7p) = -304$$
 8.) $9-8f = -4(-2f-1)$

8.)
$$9 - 8f = -4(-2f - 1)$$

Justify the steps for each equation:

Bank (you will not use every options):

Multiplicative Property of Zero Addition Property of Equality Division Property of Equality Distributive Property Identity Property Reflexive Property Subtraction Property of Equality Substitution Associative Property Inverse Property Transitive Property of Equality Multiplication Property of Equality Symmetric Property Commutative Property

3(3x + 2) - 12 = 6x + 9 + -9	Given
9x + 6 – 12 = 6x + 9 + -9	
9x - 6 = 6x + 9 + -9	
9x - 6 = 6x	
9x = 6x + 6	
3x = 6	
x = 2	

21 = (2(y+6)) + (-12)	Given
21 = (2y + 12) + (-12)	
21 = 2y + (12 + (-12))	
21 = 2y	
10.5 = y	
$10\frac{1}{2} = y$	
$y = 10\frac{1}{2}$	