Identify the property of equality that justifies the missing step(s) to solve the given equation.

Equation	Steps
3x + (x - 8) = 12	Given
4x - 8 = 12	Simplify OR Combine Like Terms
4x = 20	(1)
x = 5	(2)

Equation	Steps
6x + 14 = 12.8	Given
6x = -1.2	(3)
x = -0.2	(4)

Equation	Steps
-6 = 3x - (x + 4)	Given
-6 = 3x - x - 4	(5)
-6 = 2x - 4	(6)
-2 = 2x	(7)
-1 = x	(8)
x = -1	(9)

Solve and explain each step.

Equation	Steps
4 - 3x = 16 + x	Given
4 - 4x = 16	(10)
(11)	(12)
(13)	(14)

Solve each equation. Show all your steps and write a justification for each step.

15. $\frac{1}{5}(a + 10) = -3$	 16. 3† + 6.5 = † – 1.3	
$\frac{1}{5}\alpha + 2 = -3$	 2† + 6.5 = - 1.3	
$\frac{1}{5}a = -5$	 2† = - 7.8	
a = -25	 t = - 3.9	

Write a justification for each step.

$$M - N = 10$$

$$(2x - 5) - (x + 6) = 10$$

$$2x - 5 - x - 6 = 10$$

$$x - 11 = 10$$

$$x = 21$$

18.

Equation	Steps
3(x-9) = 2(2x+3)	