Exercise 4

The Properties of Equality

Find whether both sides of the equations are equal by using the symmetric property, the transitive property, the addition property or the multiplication property.

1) If $x = y$, then $x + 3 = y + 3$ ....

2) If $x - 8 = 13$, then $13 = x - 8$ ....

3) If $m = 2n$, then $m + (-5) = 2n + (-5)$ ....

4) If $4p + 6 = 9$, then $4p = 3$ ....

5) If $a = b$, then $4a = 4b$ ....

6) If $\dfrac{a}{2} = 3b$, then $a = 6b$ ....

7) If $2x = 4y$ and $4y = 8$ then $2x = 8$ ....

8) If $x = a + 1$, then $\dfrac{x}{3} = \dfrac{a + 1}{3}$ ....

9) If $(x + y) + 3 = z$, then $(x + y) + 5 = z + 2$..

10) If $7x = y + 6$, then $x = \dfrac{y + 6}{7}$ ....