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| Properties (p.96)Ex. 1 Writing ReasonsCheckpointEx. 2 Using Properties in Real Life*\*Target heart rate is the rate at which your achieve an effective workout without placing too much strain on your heart.*Properties of Equality for Segments and AnglesEx. 3 Using Properties of MeasureCheckpoint | **Algebraic Properties of Equality *(a,b,c are real numbers)*****Addition Property** If a = b, then a + c = b + c.**Subtraction Property** If a = b, then a - c = b - c.**Multiplication Property** If a = b, then a c = b c.**Division Property** If a = b and c ≠ 0, then $\frac{a}{c}$=$\frac{b}{c}$.**Reflexive Property** For any real number a, a = a.**Symmetric Property** If a = b, then b = a.**Transitive Property** If a = b and b = c, then a = c.**Substitution Property** If a = b, then a can be substituted for b in any equation or expression..**Distributive Property** a (b + c) = a b + a cSolve -2x + 1 = 56 – 3x and write a reason for each step. Statement Reason -2x + 1 = 56 – 3x GivenSolve the equation and write a reason for each step.12x – 3(x + 7) = 8xBefore exercising, you should find your target heart rate\*. Your target heart rate *r* (in beats per minute) can be determined from your age *a* (in years) using the equation *a* = 220 - $\frac{10}{7}$ *r*.1. Solve for r and write a reason for each step.
2. Find the target heart rate for ages 20, 30, 40, 50, and 60. What happens as a person gets older?

Find the m<1.m<1 + m<2 + m<3 + m<4 = 360°m<2 + m<3 = m<4m<1 = m<4In the diagram at the right, B is the midpoint of segment AC and C is the midpoint of segment BD. Show that AB = CD.  |