Practice worksheet | Algebra

Checking equivalent expressions

Name: _____ Date: _____

6 questions | 14 marks

1. Are $4x + 7x$ and $11x$ equivalent? Explain. [2 marks]

2. Are $3(x + 2)$ and $3x + 2$ equivalent? Give a counterexample if not. [2 marks]

3. Show $5a - 2(a - 3)$ is equivalent to $3a + 6$. [2 marks]

4. Are $6x + 9$ and $3(2x + 3)$ equivalent? Explain. [2 marks]

5. Two expressions agree at $x = 2$. Explain why this does not prove equivalence, using your own pair. [3 marks]

6. Show $\frac{8x}{4}$ and $2x$ are equivalent. Is $x = 0$ allowed? [3 marks]