8th grade homework #1

Due Date: Sept. 22, 2013

1. What's the first time after 10 o'clock at which the minute hand and hour hand of a clock point in the exact same direction.

2. $x = \sqrt{\frac{6}{7}}$, evaluate $\left(x + \frac{1}{x}\right)^2 = ?$

3. $\frac{x}{y} = \frac{2}{3}$ $\frac{y}{z} = \frac{7}{5}$ $\frac{z}{x} = ?$

4. $\frac{10x + 3y}{13x + 2y} = \frac{3}{5}$ $\frac{x}{y} = ?$

5. $2^x = 6$ $2^{3x-1} = ?$