

1/18/13 Warm Up

Solve

$$\textcircled{1} 4^{2x} = (2^{-1})^{1-2x}$$

$$\textcircled{2} 5^{3x} = \left(\frac{1}{25}\right)^{x-1}$$

Simplify

$$\textcircled{3} 2^{4-\sqrt{5}} \cdot 2^{1+\sqrt{5}}$$

$$\textcircled{4} \frac{3^{2+\sqrt{7}}}{3^{2-\sqrt{7}}}$$