

$$\frac{\frac{1}{3}\sqrt{29} + \frac{3}{4}\sqrt{39}}{m + \frac{1}{3} + \frac{3}{4}} = \frac{\frac{\sqrt{29}}{3} + \frac{3\sqrt{39}}{4}}{m + \frac{4}{12} + \frac{9}{12}} = \frac{\frac{4\sqrt{29}}{12} + \frac{9\sqrt{39}}{12}}{m + \frac{13}{12}} = \frac{\frac{4\sqrt{29} + 9\sqrt{39}}{12}}{\frac{13 + 12m}{12}} = \frac{4\sqrt{29} + 9\sqrt{39}}{12m + 13}$$