

1. Perform the indicated operation.

a. $7 \div 0$ *Undefined.*

b. $(\frac{5}{3})^3$ $(\frac{5}{3})^3 = (\frac{5}{3})(\frac{5}{3})(\frac{5}{3}) = \boxed{\frac{125}{27}}$

2. Simplify

$$\frac{\sqrt{10^2 - 8^2}}{3^2} = \frac{\sqrt{100 - 64}}{9} = \frac{\sqrt{36}}{9} = \frac{6}{9} = \boxed{\frac{2}{3}}$$

3. Clear parentheses and combine like terms.

$$\begin{aligned} & \frac{1}{5}(25a - 20b) - \frac{4}{7}(21a - 14b + 2) + \frac{1}{7} \\ & \frac{1}{5}25a - \frac{1}{5}20b - \frac{4}{7}21a + \frac{4}{7}14b - \frac{4}{7} \cdot 2 + \frac{1}{7} \\ & 5a - 4b - 12a + 8b - \frac{8}{7} + \frac{1}{7} \\ & \boxed{-7a + 4b - 1} \end{aligned}$$