

## RADICACIÓN

Problema 16:

Simplifica la expresión siguiente:

$$\frac{\frac{4}{x-y} \sqrt{\frac{2a}{x-y}}}{\sqrt{\frac{18a^3}{(x-y)^5}}}$$

Solución Problema 16:

$$\begin{aligned} \frac{\frac{4}{x-y} \sqrt{\frac{2a}{x-y}}}{\sqrt{\frac{18a^3}{(x-y)^5}}} &= \frac{\frac{4}{x-y} \sqrt{\frac{2a}{x-y}}}{\sqrt{\frac{3^2 2a^2 a}{(x-y)^4 (x-y)}}} = \frac{\frac{4}{x-y} \sqrt{\frac{\cancel{2a}}{\cancel{x-y}}}}{\frac{3a}{(x-y)^2} \sqrt{\frac{\cancel{2a}}{\cancel{(x-y)}}}} \\ \frac{\frac{4}{x-y}}{3a} &= \frac{4(x-y)^2}{3a(x-y)} = \frac{4(x-y)}{3a} \end{aligned}$$